

P-592

NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES

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Bibliography Number

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NASA SP-7039(13) SEC 1	N78-10001 - N78-22018
NASA SP-7039(14) SEC 1	N78-22019 - N78-34034
NASA SP-7039(15) SEC 1	N79-10001 - N79-21993
NASA SP-7039(16) SEC 1	N79-21994 - N79-34158
NASA SP-7039(17) SEC 1	N80-10001 - N80-22254
NASA SP-7039(18) SEC 1	N80-22255 - N80-34339
NASA SP-7039(19) SEC 1	N81-10001 - N81-21997
NASA SP-7039(20) SEC 1	N81-21998 - N81-34139
NASA SP-7039(21) SEC 1	N82-10001 - N82-22140
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NASA SP-7039(34) SEC 1	N88-20254 - N88-30583
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NASA SP-7039 (42)

January 1993

NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES



National Aeronautics and Space Administration
Scientific and Technical Information Program
Washington, DC

1993

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INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 174 citations published in this issue of the Abstract Section cover the period July 1992 through December 1992. The Index Section references over 5300 citations covering the period May 1969 through December 1992.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue includes 10 major subject divisions separated into 76 specific categories and one general category/division. (See Table of Contents for the scope note of each category, under which are grouped appropriate NASA inventions.) This scheme was devised in 1975 and revised in 1987 in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and, when appropriate, a key illustration taken from the patent or application for patent. Entries are arranged by subject category in order of the ascending NASA Accession Number originally assigned for *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

- NASA Accession Number
- NASA Case Number
- Inventor's Name
- Title of Invention
- U.S. Patent Application Serial Number
- U.S. Patent Number (for issued patents only)
- U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (1) use the Subject Category Number to locate the Subject Category and (2) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (not including applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

TYPICAL CITATION AND ABSTRACT

NASA SPONSORED

ACCESSION NUMBER → N92-29130* National Aeronautics and Space Administration. ← CORPORATE SOURCE
Pasadena Office, CA.

TITLE → **PRECISION MEASUREMENT OF MAGNETIC CHARACTERISTICS OF AN ARTICLE WITH NULLIFICATION OF EXTERNAL MAGNETIC FIELDS Patent**

INVENTORS → SHAWN B. HONESS, inventor (to NASA) (Jet Propulsion Lab., California Inst. of Tech., Pasadena.), PABLO NARVAEZ, inventor (to NASA) (Jet Propulsion Lab., California Inst. of Tech., Pasadena.), and JAMES M. MCAULEY, inventor (to NASA) (Jet Propulsion Lab., California Inst. of Tech., Pasadena.) 30 Jun. 1992 14 p Filed 27 Nov. 1990

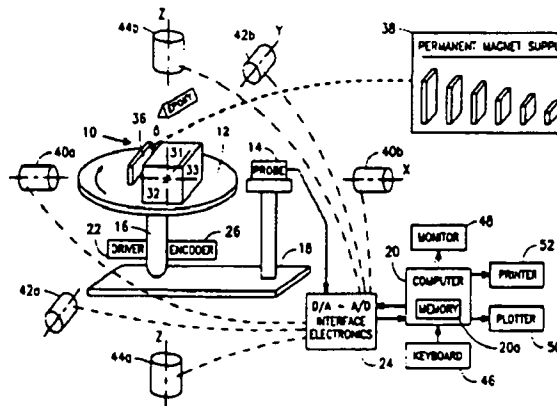
NASA CASE NUMBER → (NASA-CASE-NPO-18187-1-CU; US-PATENT-5,126,669; US-PATENT-APPL-SN-618789; US-PATENT-CLASS-324-261; US-PATENT-CLASS-324-244; US-PATENT-CLASS-324-205; US-PATENT-CLASS-361-148; US-PATENT-CLASS-361-149; US-PATENT-CLASS-361-267; INT-PATENT-CLASS-G01N-27/72) Avail:

US PATENT APPLICATIONS SERIAL NUMBERS

AVAILABILITY SOURCE → US Patent and Trademark Office

An apparatus for characterizing the magnetic field of a device under test is discussed. The apparatus is comprised of five separate devices: (1) a device for nullifying the ambient magnetic fields in a test environment area with a constant applied magnetic field; (2) a device for rotating the device under test in the test environment area; (3) a device for sensing the magnetic field (to obtain a profile of the magnetic field) at a sensor location which is along the circumference of rotation; (4) a memory for storing the profiles; and (5) a processor coupled to the memory for characterizing the magnetic field of the device from the magnetic field profiles thus obtained.

Official Gazette of the U.S. Patent and Trademark Office



KEY ILLUSTRATION

Subject Categories

(1969 - 1973)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft; and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft; e.g., ground effect machines, STOL, and VTOL; flight tests; operating problems; e.g., sonic boom; safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences

Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology

Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry

Includes chemical analysis and identification; e.g., spectroscopy. For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications

Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers

Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment

Includes electronic test equipment and maintainability; component parts; e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications; and 21 Navigation.

10 Electronics

Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support

Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities; e.g., rocket engine test stands, shock tubes, and wind tunnels; test ranges; and tracking stations.

12 Fluid Mechanics

Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics

Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gauges; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers

Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic

Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic

Includes corrosion; physical and mechanical properties of materials; e.g., plastics; and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics

Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology

Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation

Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General

Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics; 20 Meteorology; and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma

Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State

Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants

Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also: 28 Propulsion Systems.

28 Propulsion Systems

Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation

Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics; and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences

Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles

Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics

Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Revised Subject Categories
(Includes 1974 and 1987 revisions)

AERONAUTICS For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery. For related information see also *34 Fluid Mechanics and Heat Transfer*.

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents. For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control. For related information see also *17 Space Communications, Spacecraft Communications, Command and Tracking* and *32 Communications and Radar*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology. For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*. For land transportation vehicles see *85 Urban Technology and Transportation*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments. For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft. For related information see also *20 Spacecraft Propulsion and Power, 28 Propellants and Fuels, and 44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots. For related information see also *05 Aircraft Design, Testing and Performance*.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands. For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS For related information see also *Aeronautics*.

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators. For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles. For related information see also *20 Spacecraft Propulsion and Power*.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques. For related information see also *03 Air Transportation and Safety* and *18 Spacecraft Design, Testing and Performance*. For space suits see *54 Man/System Technology and Life Support*.

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation and guidance; and radio blackout. For related information see also *04 Aircraft Communications and Navigation* and *32 Communications and Radar*.

N.A.—no abstracts were assigned to this category for this issue.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls. For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance*, *39 Structural Mechanics*, and *16 Space Transportation*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources. For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, *44 Energy Production and Conversion*, and *15 Launch Vehicles and Space Vehicles*.

CHEMISTRY AND MATERIALS

23 CHEMISTRY AND MATERIALS (GENERAL)

24 COMPOSITE MATERIALS

Includes physical, chemical, and mechanical properties of laminates and other composite materials. For ceramic materials see *27 Nonmetallic Materials*.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry. For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials. For composite materials see *24 Composite Materials*.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels. For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

29 MATERIALS PROCESSING

Includes space-based development of products and processes for commercial application. For biological materials see *55 Space Biology*.

ENGINEERING

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR

Includes radar; land and global communications; communications theory; and optical communications. For related information see also *04 Aircraft Communications and Navigation* and *17 Space Communications, Spacecraft Communications, Command and Tracking*. For search and rescue see *03 Air Transportation and Safety*, and *16 Space Transportation*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry. For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling. For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gauges; detectors; cameras and photographic supplies; and holography. For aerial photography see *43 Earth Resources and Remote Sensing*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers. For related information see also *76 Solid-State Physics*.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress. For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES

For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES AND REMOTE SENSING

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography. For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower. For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *28 Propellants and Fuels*.

45 ENVIRONMENT POLLUTION

Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism. For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic, and physical oceanography; and marine resources. For related information see also *43 Earth Resources and Remote Sensing*.

LIFE SCIENCES

51 LIFE SCIENCES (GENERAL)

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing. For related information see also *16 Space Transportation*.

55 SPACE BIOLOGY

Includes exobiology; planetary biology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes hardware for computer graphics, firmware, and data processing. For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS

Includes computer networks and special application computer systems.

63 CYBERNETICS

Includes feedback and control theory, artificial intelligence, robotics and expert systems. For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS For related information see also *Engineering*.

70 PHYSICS (GENERAL)

For precision time and time interval (PTTI) see *35 Instrumentation and Photography*; for geophysics, astrophysics or solar physics see *46 Geophysics*, *90 Astrophysics*, or *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation. For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory. For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena and optical devices. For lasers see *36 Lasers and Masers*.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion. For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity. For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics. For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES

80 SOCIAL SCIENCES (GENERAL)

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography. For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY

Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation. For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*.

SPACE SCIENCES For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY

Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS

Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust. For related information see also *75 Plasma Physics*.

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology; and manned and unmanned flights. For spacecraft design or space stations see *18 Spacecraft Design, Testing and Performance*.

92 SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots. For related information see *93 Space Radiation*.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts. For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL

Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

99 GENERAL

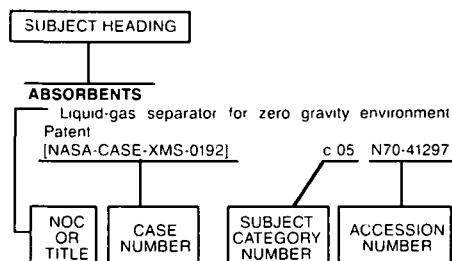
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NASA PATENT ABSTRACTS BIBLIOGRAPHY

Section 2

Typical Subject Index Listing



The subject heading is a key to the subject content of the document. A brief description of the document, e.g., title, title plus a title extension, or notation of content (NOC), is included for each subject entry to indicate the subject heading context; these descriptions are arranged under each subject heading in ascending accession number order. The case number serves as the prime access number to the patent documents. The subject category number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The accession number denotes the number by which the citation is identified within the subject category.

A

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- High speed multi focal plane optical system
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- Control system for ruling blazed, aberration corrected diffraction gratings
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[NASA-CASE-XLA-00378] c 11 N71-15925
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- Ablation sensor Patent
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- Ablative system
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- Ablative shielding for hypervelocity projectiles
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[NASA-CASE-XLA-01091] c 15 N71-10672
- Ablative resin Patent
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- Ablation structures Patent
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- Thermal protection ablation spray system Patent
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- Ablative system
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- Ablative system
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- Sprayable low density ablator and application process
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- Noncontaminating swabs
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- Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
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- Oil and fat absorbing polymers
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- ABSORPTION SPECTRA**
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- Method and apparatus for enhancing laser absorption sensitivity
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- ABSORPTION SPECTROSCOPY**
- Digital control of diode laser for atmospheric spectroscopy
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- ABSORPTIVITY**
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- Superconducting alternator
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- Superconducting alternator Patent
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- Electrical power generating system
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- Predictive aging of polymers
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- Single grid accelerator for an ion thruster
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- ACCELERATION (PHYSICS)**
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- Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
- Artificial gravity spin deployment system Patent
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- Active vibration isolator for flexible bodies Patent
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- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
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- G-load measuring and indicator apparatus
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- Helmet weight simulator
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[NASA-CASE-HQN-10780] c 14 N71-30265
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Differential optoacoustic absorption detector
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[NASA-CASE-MSC-18179-1] c 20 N80-18097

Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432

Electrical servo actuator bracket — fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483

Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

Slow opening valve — valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769

Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927

Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969

Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151

Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616

Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539

Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824

Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493

Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656

Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509

Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

Multi-degree of freedom, active vibration control method, and system
[NASA-CASE-LAR-14508-1-CU] c 39 N92-10202

High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318

Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

Climbing robot — caterpillar design
[NASA-CASE-GSC-13442-1] c 37 N92-23547

Quick-connect fasteners for assembling devices in space
[NASA-CASE-MSC-21648-1] c 37 N92-24051

Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N92-29762

Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028

Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N92-34173

ADAPTATION

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

ADAPTERS

Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474

Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727

ADAPTIVE CONTROL

Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941

Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920

Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

Apparatus for damping operator induced oscillations of a controlled system — flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

ADAPTIVE FILTERS

Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986

Apparatus for damping operator induced oscillations of a controlled system — flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

ADAPTIVE OPTICS

Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

ADDING CIRCUITS

Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787

Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843

ADDITION RESINS

Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229

Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566

Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053

ADDITIVES

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

Process for lowering the dielectric constant of ϵ_r films using diamine acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

Polyimide processing additives
[NASA-CASE-LAR-13669-1] c 27 N92-29157

ADDRESSING

Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

ADENOSINE TRIPHOSPHATE

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011

Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794

Rapid, quantitative determination of bacteria in water — adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ADHESION

Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392

Improved refractory coatings — sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

ADHESION TESTS

Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

ADHESIVE BONDING

- Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
- Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108
- Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374
- Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014
- Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N92-33020

ADHESIVES

- Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
- Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
- Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
- Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424
- Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162
- Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865

ADIABATIC CONDITIONS

- Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493

ADJUSTING

- Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
- Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
- Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
- Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982

- Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
- Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

ADSORPTION

- Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029

AERIAL RUDDERS

- Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

AEROACOUSTICS

- Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

AERODYNAMIC BALANCE

- Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
- Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185

AERODYNAMIC BRAKES

- Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
- Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034

AERODYNAMIC CHARACTERISTICS

- Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
- Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588

AERODYNAMIC CONFIGURATIONS

- Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
- Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
- Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
- Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N79-41631
- Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018

- Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
- Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830

AERODYNAMIC DRAG

- Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
- Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587
- Method of reducing drag in aerodynamic systems
[NASA-CASE-LEW-14791-1] c 02 N92-34243

AERODYNAMIC HEATING

- Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

- Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
- Space station trash removal system
[NASA-CASE-MSC-21723-1] c 18 N92-30315

AERODYNAMIC INTERFERENCE

- Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

AERODYNAMIC LOADS

- Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
- Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

AERODYNAMIC NOISE

- Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
- Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC STABILITY

- Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

AERODYNAMIC STALLING

- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

AERODYNAMICS

- Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
- Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830

AEROELASTICITY

- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

AERONAUTICAL ENGINEERING

- Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

AEROSOLS

- Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

AEROSPACE ENGINEERING

- Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
- Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317

AEROSPACE ENVIRONMENTS

- Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403

- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
- Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
- Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
- Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
- Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
- AEROSPACE MEDICINE**
- Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- AEROSPACE PLANES**
- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- AEROSPACE SYSTEMS**
- Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514
- AEROSPACE VEHICLES**
- Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
- Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
- Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
- Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
- AFTERBODIES**
- Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- AFTERBURNING**
- Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
- AGGLOMERATION**
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- AGING (MATERIALS)**
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- AGRICULTURE**
- Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701
- AILERONS**
- Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- AIR**
- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
- Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
- AIR BREATHING ENGINES**
- Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
- AIR CONDITIONING**
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- AIR CONDITIONING EQUIPMENT**
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
- Heat tube device
[NASA-CASE-GSC-11395-1-CU] c 34 N91-21473
- AIR COOLING**
- Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
- Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
- AIR FILTERS**
- Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
- AIR FLOW**
- Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
- Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
- Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
- Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
- Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
- Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
- Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954
- Calibration apparatus for recess mounted pressure transducers
[NASA-CASE-LAR-14724-1] c 35 N92-30030
- Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390
- AIR INTAKES**
- Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
- Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
- Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- AIR LOCKS**
- Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
- Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
- An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
- Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
- Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
- AIR NAVIGATION**
- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- AIR POLLUTION**
- Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
- AIR PURIFICATION**
- High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
- AIR QUALITY**
- Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- AIR SAMPLING**
- Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
- Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- AIR START**
- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- AIR TRAFFIC CONTROL**
- Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
- Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
- AIR TRANSPORTATION**
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- AIRBORNE EQUIPMENT**
- Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
- Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113
- AIRBORNE/SPACEBORNE COMPUTERS**
- Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
- Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
- AIRCRAFT**
- System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
- Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391

System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

AIRCRAFT ACCIDENTS
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

AIRCRAFT ANTENNAS
Spiral slotted phased antenna array
[NASA-CASE-MS-18532-1] c 32 N82-27558

AIRCRAFT COMPARTMENTS
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

AIRCRAFT CONFIGURATIONS
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

AIRCRAFT CONSTRUCTION MATERIALS
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099

AIRCRAFT CONTROL
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Flight control system
[NASA-CASE-MS-13397-1] c 21 N72-25595
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

AIRCRAFT DESIGN
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005

Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

AIRCRAFT DETECTION
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

AIRCRAFT ENGINES
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

AIRCRAFT EQUIPMENT
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
Method of reducing drag in aerodynamic systems
[NASA-CASE-LEW-14791-1] c 02 N92-34243

AIRCRAFT FUEL SYSTEMS
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

AIRCRAFT GUIDANCE
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

AIRCRAFT HAZARDS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

AIRCRAFT HYDRAULIC SYSTEMS
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

AIRCRAFT INSTRUMENTS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882

Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N92-29148

AIRCRAFT LANDING
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

AIRCRAFT LAUNCHING DEVICES
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-LAR-10979-1] c 09 N77-19076

AIRCRAFT MAINTENANCE
Bearing servicing tool
[NASA-CASE-MS-21881-1] c 37 N92-30082

AIRCRAFT MANEUVERS
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381

AIRCRAFT MODELS
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014

AIRCRAFT NOISE
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

AIRCRAFT PERFORMANCE
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120

AIRCRAFT PILOTS
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597

AIRCRAFT POWER SUPPLIES
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

AIRCRAFT SAFETY
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

AIRCRAFT SPIN
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147

- Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
- Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
- Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
- AIRCRAFT STABILITY**
- Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
- AIRCRAFT STRUCTURES**
- Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
- Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- Some 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
- AIRCRAFT TIRES**
- Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
- AIRCRAFT WAKES**
- System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- AIRFOIL PROFILES**
- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- AIRFOILS**
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
- High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224
- Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185
- Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954
- AIRFRAMES**
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- AIR SPEED**
- Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- ALBUMINS**
- Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
- ALCOHOLS**
- Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- ALDEHYDES**
- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- ALGEBRA**
- High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895
- ALGORITHMS**
- Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
- Multi-stage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
- Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
- Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830
- Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951
- A space-time neural network for processing both spatial and temporal data
[NASA-CASE-MSC-21874-1] c 63 N92-30314
- Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019
- ALIGNMENT**
- Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
- Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
- Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
- Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
- Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
- Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
- Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
- Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
- Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
- Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
- Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
- Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922
- High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
- ALKALI HALIDES**
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- ALKALI METALS**
- Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241
- ALKALINE BATTERIES**
- Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALKALINE EARTH OXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

ALKYL COMPOUNDS
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

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High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

ALLOYS
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365

Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810

Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123

Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358

Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125

Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

Gradient tempering process
[NASA-CASE-MFS-28496-1] c 26 N92-34239

ALPHA PARTICLES
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

ALPHANUMERIC CHARACTER GENERATORS
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517

ALTERNATING CURRENT
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559

Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418

Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317

Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799

Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139

Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950

A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253

Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956

Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542

Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395

Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422

Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886

Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660

Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

ALTIMETERS
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

ALTITUDE
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268

ALTITUDE CONTROL
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925

ALUMINUM
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443

Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828

Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142

Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830

Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903

Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579

Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034

Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135

Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455

Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469

Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

ALUMINUM ALLOYS
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743

Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828

Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333

Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

ALUMINUM COATINGS
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414

Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261

Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408

Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

ALUMINUM COMPOUNDS
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

ALUMINUM GALLIUM ARSENIDES
Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N92-23464

ALUMINUM OXIDES
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461

ALUMINUM SILICATES
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

AMBIENT TEMPERATURE
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

AMBIGUITY
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

AMIDES
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

Method for preparing addition type polyimide prepolymers
[NASA-CASE-LAR-12054-2] c 27 N81-14078

Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425

Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200

AMINES
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239

Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243

Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086

Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

Metal (2,4,4',4'',4''') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416

Amine terminated bispartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726

Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198

AMINO ACIDS
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

AMMONIA
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090

Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS

- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025

AMPLIFICATION

- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
- Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
- Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
- Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
- Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
- Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

AMPLIFIER DESIGN

- Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

AMPLIFIERS

- Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
- High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

AMPLITUDE DISTRIBUTION ANALYSIS

- System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

AMPLITUDE MODULATION

- Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468

- Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
- Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
- Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
- Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

AMPLITUDES

- Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

AMPOULES

- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
- Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896

ANALGESIA

- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ANALOG CIRCUITS

- Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
- Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
- Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
- Nonvolatile programmable neural network synaptic array
[NASA-CASE-NPO-18578-1-CU] c 33 N92-30086
- Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240

ANALOG COMPUTERS

- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

ANALOG DATA

- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

- Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
- Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
- Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396

ANALOG SIMULATION

- Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

ANALOG TO DIGITAL CONVERTERS

- Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
- Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
- Nonlinear analog-to-digital converter Patent
[NASA-CASE-MFS-04031] c 08 N71-18594
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
- Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
- Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
- Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
- Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
- Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166
- Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
- Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
- Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
- Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345
- Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
- Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
- X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

ANALOGIES

- Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057

ANALYZERS

- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400

ANCHORS (FASTENERS)

- Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
- Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354

ANECHOIC CHAMBERS

- Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

ANEMOMETERS

- Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
- Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460

- Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710

ANGIOGRAPHY

- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

ANGLE OF ATTACK

- Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

ANGLES (GEOMETRY)

- Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831

ANGULAR ACCELERATION

- Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

ANGULAR CORRELATION

- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490

ANGULAR DISTRIBUTION

- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

ANGULAR MOMENTUM

- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379

ANGULAR RESOLUTION

- Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387

ANGULAR VELOCITY

- Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695

ANNHYDRIDES

- Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Novel polyimide compositions based on 4,4'-isophthaloyldiphthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
A process for preparing 1,3-diamino-5-pentafluorosulfanybenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105

- Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200
A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882
Polyimides containing the cyclobutene-3,4-dione moiety
[NASA-CASE-LAR-14753-1] c 27 N92-30313

ANILINE

- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

ANIMALS

- Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ANIONS

- Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

ANISOTROPIC MEDIA

- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

ANISOTROPY

- High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947

ANNEALING

- Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

ANNULAR NOZZLES

- Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ANNULAR PLATES

- Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

ANNULI

- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

ANODES

- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222

ANODIC COATINGS

- Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162

- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

ANOMALIES

- Aircraft liftemeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

ANTENNA ARRAYS

- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

ANTENNA COMPONENTS

- Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

ANTENNA COUPLERS

- Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ANTENNA DESIGN

- Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750

- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- Antenna array phase quadrature tracking system Patent
[NASA-CASE-MS-C-12205-1] c 07 N71-27056
- Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
- Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
- Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
- Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
- Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
- Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Multiple band circularly polarized microstrip antenna
[NASA-CASE-MS-C-18334-1] c 32 N80-32604
- Spiral slotted phased antenna array
[NASA-CASE-MS-C-18532-1] c 32 N82-27558
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- Switched steerable multiple beam antenna system
[NASA-CASE-MS-C-20873-1-SB] c 32 N89-11961
- System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
- Double-loop frequency-selected surfaces for multifrequency division multiplexing in a dual-reflector antenna
[NASA-CASE-NPO-18701-1-CU] c 32 N92-30391
- ANTENNA FEEDS**
- Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
- Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
- Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
- Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
- Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
- Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
- ANTENNA RADIATION PATTERNS**
- Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
- Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
- Coaxial phased array antenna
[NASA-CASE-MS-C-16800-1] c 32 N81-14187
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- ANTENNAS**
- Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
- High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
- ANTIBIOTICS**
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- ANTIBODIES**
- Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
- ANTICHOLINERGICS**
- Intranasal scopolamine preparation and method
[NASA-CASE-MS-C-21858-1] c 52 N92-11628
- ANTIFRICTION BEARINGS**
- Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
- Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
- High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
- Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
- ANTIGRAVITY**
- Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789
- ANTIHISTAMINICS**
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764
- ANTIREFLECTION COATINGS**
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- ANVILS**
- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
- High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094
- APERATURES**
- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- On-film optical recording of camera lens settings
[NASA-CASE-MS-C-12363-1] c 14 N73-26431
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135
- Dynamic aperture fringe discriminator
[NASA-CASE-NPO-18478-1-CU] c 74 N92-30084
- APOLLO PROJECT**
- Space suit
[NASA-CASE-MS-C-12609-1] c 05 N73-32012
- APOLLO SPACECRAFT**
- Energy absorbing structure Patent Application
[NASA-CASE-MS-C-12279-1] c 15 N70-35679
- Low onset rate energy absorber
[NASA-CASE-MS-C-12279] c 15 N72-17450
- APPLICATION SPECIFIC INTEGRATED CIRCUITS**
- Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
- APPLICATIONS OF MATHEMATICS**
- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- APPLICATIONS PROGRAMS (COMPUTERS)**
- High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895
- APPROACH**
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- AQUATIC PLANTS**
- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- AQUEOUS SOLUTIONS**
- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MS-C-13530-2] c 23 N75-14834
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MS-C-16497-1] c 25 N82-12166
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
- ARAMID FIBER COMPOSITES**
- Glove attachment
[NASA-CASE-MS-C-21632-1] c 54 N92-34210
- ARC DISCHARGES**
- Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- ARC HEATING**
- Electric arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
- ARC JET ENGINES**
- Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
- Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
- ARC LAMPS**
- Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
- Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
- Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
- Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942
- ARC SPRAYING**
- Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027
- Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

ARC WELDING

- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
- Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
- ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
- Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
- Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677

ARCHITECTURE

- Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

ARCHITECTURE (COMPUTERS)

- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
- Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270
- Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
- Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
- Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
- Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
- System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
- Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
- Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
- Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
- Optical inner product neural associative memory
[NASA-CASE-NPO-18491-1-CU] c 60 N92-23546
- Electronic neural network for solving traveling salesman and similar global optimization problems
[NASA-CASE-NPO-17807-2-CU] c 63 N92-29955
- Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240

ARGON

- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

ARITHMETIC

- VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

ARM (ANATOMY)

- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
- Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795
- Bar-holding prosthetic limb
[NASA-CASE-MFS-28481-1] c 54 N92-24056

ARMATURES

- Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
- Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

AROMATIC COMPOUNDS

- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

ARRAYS

- Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
- Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146
- Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390

ARTERIES

- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

ARTIFICIAL CLOUDS

- Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

ARTIFICIAL GRAVITY

- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
- Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
- Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ARTIFICIAL INTELLIGENCE

- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033
- Fast temporal neural learning using teacher forcing
[NASA-CASE-NPO-18553-1-CU] c 63 N92-30085

ARTIFICIAL SATELLITES

- Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

ASBESTOS

- Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204

ASHES

- Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

ASPECT RATIO

- Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
- Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
- Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011

ASPHALT

- Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

ASSAYING

- Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

ASSEMBLIES

- Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
- Bearing seal usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
- Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
- Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
- X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
- Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
- Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

ASSEMBLING

- Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
- Method of performing and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490

ASSEMBLY

- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
- Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354

ASSOCIATIVE PROCESSING (COMPUTERS)

- Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803

ASTRONAUT LOCOMOTION

- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
- Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

ASTRONAUT MANEUVERING EQUIPMENT

- Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
- Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

ASTRONAUT PERFORMANCE

- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

ASTRONAUT TRAINING

- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
- Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
- Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

ASTRONAUTS

- Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
- End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559
- Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

ASTRONAVIGATION

- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

ASTRONOMICAL PHOTOGRAPHY

- Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419

ASYMMETRY

- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
- Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

ATMOSPHERIC CHEMISTRY

- All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

ATMOSPHERIC COMPOSITION

- Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
- Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

ATMOSPHERIC DENSITY

- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

ATMOSPHERIC ENTRY

- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

ATMOSPHERIC ENTRY SIMULATION

- Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

ATMOSPHERIC MOISTURE

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

ATMOSPHERIC PHYSICS

- Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

ATMOSPHERIC PRESSURE

- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MS-C-21384-1] c 34 N92-16243
- Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156

ATMOSPHERIC RADIATION

- Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

ATMOSPHERIC REFRACTION

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

ATMOSPHERIC SCATTERING

- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

ATMOSPHERIC SOUNDING

- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

ATMOSPHERIC TEMPERATURE

- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

ATMOSPHERIC TURBULENCE

- Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

ATOMIC BEAMS

- Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661

ATOMIC EXCITATIONS

- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

ATOMIC STRUCTURE

- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

ATOMIZERS

- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

ATS

- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

ATTACHMENT

- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

ATTENUATORS

- Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

ATTITUDE (INCLINATION)

- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
- Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

ATTITUDE CONTROL

- Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
- Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
- Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
- Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
- Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
- Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
- Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
- Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
- Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
- Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
- Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
- Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
- Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
- Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
- Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
- Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
- Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089

- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
- Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
- Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
- Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
- Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

ATTITUDE GYROS

- Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
- Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113

ATTITUDE INDICATORS

- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

ATTITUDE STABILITY

- Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
- Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

AUDIO EQUIPMENT

- Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
- Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609

AUDIO FREQUENCIES

- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
- Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

AUDIO SIGNALS

- Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

AUDITORY DEFECTS

- Hearing aid malfunction detection system
[NASA-CASE-MS-C-14916-1] c 33 N78-10375
- Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

AUDITORY PERCEPTION

- Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUDITORY SIGNALS

- Audio signal processor Patent
[NASA-CASE-MS-C-12223-1] c 07 N71-26181
- Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

AUDITORY STIMULI

- Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUGER EFFECT

- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MS-C-18791-1] c 37 N83-36482

AUSTENITE

Fastening apparatus having shape memory alloy actuator

[NASA-CASE-MSC-21935-1] c 37 N92-29762

AUSTENITIC STAINLESS STEELS

Nickel aluminide coated low alloy stainless steel

[NASA-CASE-LEW-11267-1] c 17 N73-32414

Device for measuring the ferrite content in an austenitic stainless-steel weld

[NASA-CASE-MFS-22907-1] c 26 N76-18257

AUTOCLAVES

System for sterilizing objects --- cleaning space vehicle systems

[NASA-CASE-KSC-11085-1] c 54 N81-24724

AUTOCORRELATION

Linear three-tap feedback shift register Patent

[NASA-CASE-NPO-10351-1] c 08 N71-12503

Correlation function apparatus Patent

[NASA-CASE-XNP-00746] c 07 N71-21476

AUTOMATIC CONTROL

Bus voltage compensation circuit for controlling direct current motor

[NASA-CASE-XMS-04215-1] c 09 N69-39987

Optical alignment system Patent

[NASA-CASE-XNP-02029] c 14 N70-41955

Pulsed energy power system Patent

[NASA-CASE-MSC-13112] c 03 N71-11057

Automatic balancing device Patent

[NASA-CASE-LAR-10774] c 10 N71-13545

Apparatus for welding torch angle and seam tracking control Patent

[NASA-CASE-XMF-03287] c 15 N71-15607

Leak detector Patent

[NASA-CASE-LAR-10323-1] c 12 N71-15753

Solar optical telescope dome control system Patent

[NASA-CASE-MSC-10966] c 14 N71-19568

Automatic welding speed controller Patent

[NASA-CASE-XMF-01730] c 15 N71-23050

Indexing microwave switch Patent

[NASA-CASE-XNP-06507] c 09 N71-23548

Automatic pump Patent

[NASA-CASE-XNP-04731] c 15 N71-24042

Automatic fatigue test temperature programmer Patent

[NASA-CASE-XLA-02059] c 33 N71-24276

Automatic battery charger Patent

[NASA-CASE-XNP-04758] c 03 N71-24605

Transistor servo system including a unique differential amplifier circuit Patent

[NASA-CASE-XMF-05195] c 10 N71-24861

Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent

[NASA-CASE-NPO-10625] c 09 N71-26182

Automatic signal range selector for metering devices Patent

[NASA-CASE-XMS-06497] c 14 N71-26244

Automated fluid chemical analyzer Patent

[NASA-CASE-XNP-09451] c 06 N71-26754

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures

[NASA-CASE-MSC-13917-1] c 05 N72-15098

Optimal control system for an electric motor driven vehicle

[NASA-CASE-NPO-11210] c 11 N72-20244

Automated equipotential plotter

[NASA-CASE-NPO-11134] c 09 N72-21246

Ion thruster magnetic field control

[NASA-CASE-LEW-10835-1] c 28 N72-22771

Temperature controller for a fluid cooled garment

[NASA-CASE-ARC-10599-1] c 05 N73-26071

Redundant speed control for brushless Hall effect motor

[NASA-CASE-MFS-20207-1] c 09 N73-32107

Programmable physiological infusion

[NASA-CASE-ARC-10447-1] c 52 N74-22771

Automatically operable self-leveling load table

[NASA-CASE-MFS-22039-1] c 09 N75-12968

Automatic focus control for facsimile cameras

[NASA-CASE-LAR-11213-1] c 35 N75-15014

Traffic survey system --- using optical scanners

[NASA-CASE-MFS-22631-1] c 66 N76-19888

Automatic visual inspection system for microelectronics

[NASA-CASE-NPO-13282] c 38 N78-17396

Automatic fluid dispenser

[NASA-CASE-ARC-10820-1] c 35 N78-19466

Method for producing solar energy panels by automation

[NASA-CASE-LEW-12541-1] c 44 N78-25529

Circuit for automatic load sharing in parallel converter modules

[NASA-CASE-NPO-14056-1] c 33 N79-24257

Method for forming a solar array strip

[NASA-CASE-NPO-13652-3] c 44 N80-14474

Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width

[NASA-CASE-NPO-14295-1] c 76 N80-32245

Integrated control system for a gas turbine engine

[NASA-CASE-LEW-12594-2] c 07 N81-19116

Solar energy control system --- temperature measurement

[NASA-CASE-MFS-25287-1] c 44 N82-18686

Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands

[NASA-CASE-LAR-12412-1] c 08 N82-24205

Automatic weld torch guidance control system

[NASA-CASE-MFS-25807] c 37 N83-20154

Automatic thermal switch --- spacecraft applications

[NASA-CASE-GSC-12553-1] c 34 N83-28356

Linear magnetic bearings

[NASA-CASE-GSC-12582-2] c 37 N85-20337

Jet pump-drive system for heat removal

[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

Automatic oscillator frequency control system

[NASA-CASE-GSC-12804-1] c 33 N86-20668

Automated weld torch guidance control system

[NASA-CASE-MFS-25807-2] c 37 N86-21850

Airplane automatic control force trimming device for asymmetric engine failures

[NASA-CASE-LAR-13280-1] c 08 N87-20999

Self indexing latch system

[NASA-CASE-MFS-25956-1] c 37 N87-21333

Solder dross removal apparatus

[NASA-CASE-MFS-28406-1] c 37 N91-13729

Standard remote manipulator system docking target augmentation for automated docking

[NASA-CASE-MFS-28419-1] c 18 N91-27200

Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations

[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156

AUTOMATIC CONTROL VALVES

Check valve assembly for a probe Patent

[NASA-CASE-XLA-00128] c 15 N70-37925

Metal valve pintle with encapsulated elastomeric body Patent

[NASA-CASE-MSC-12116-1] c 15 N71-17648

Semitoroidal diaphragm cavitating valve Patent

[NASA-CASE-XNP-09704] c 12 N71-18615

Valving device for automatic refilling in cryogenic liquid systems

[NASA-CASE-NPO-11177] c 15 N72-17453

Combined pressure regulator and shutoff valve

[NASA-CASE-NPO-13201-1] c 37 N75-15050

Iodine generator for reclaimed water purification

[NASA-CASE-MSC-14632-1] c 54 N78-14784

Automatic compression adjusting mechanism for internal combustion engines

[NASA-CASE-MSC-18807-1] c 37 N83-36483

AUTOMATIC FREQUENCY CONTROL

Automatic acquisition system for phase-lock loop

[NASA-CASE-XGS-04994] c 09 N69-21543

Audio signal processor Patent

[NASA-CASE-MSC-12223-1] c 07 N71-26181

Automatic frequency control loop including synchronous switching circuits

[NASA-CASE-KSC-10393] c 09 N72-21247

Self-tuning bandpass filter

[NASA-CASE-ARC-10264-1] c 09 N73-20231

Programmable electronic synthesized capacitance

[NASA-CASE-GSC-12961-1] c 33 N87-22895

Frequency domain laser velocimeter signal processor

[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC GAIN CONTROL

Automatic gain control system

[NASA-CASE-XMS-05307] c 09 N69-24330

Amplifier drift tester

[NASA-CASE-XMS-05562-1] c 09 N69-39986

Self-tuning bandpass filter

[NASA-CASE-ARC-10264-1] c 09 N73-20231

Digital automatic gain amplifier

[NASA-CASE-KSC-11008-1] c 33 N79-22373

Automatic level control circuit

[NASA-CASE-KSC-11170-1] c 33 N83-36356

Frequency domain laser velocimeter signal processor

[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC TEST EQUIPMENT

Visual examination apparatus

[NASA-CASE-ARC-10329-1] c 05 N73-26072

Automatic microbial transfer device

[NASA-CASE-LAR-11354-1] c 35 N75-27330

Visual examination apparatus

[US-PATENT-RE-28,921] c 52 N76-30793

Automated clinical system for chromosome analysis

[NASA-CASE-NPO-13913-1] c 52 N79-12694

Automatic flowmeter calibration system

[NASA-CASE-KSC-11076-1] c 34 N81-26402

Pressure suit joint analyzer

[NASA-CASE-ARC-11314-1] c 54 N82-26987

AUTOMATION

Automated multi-level vehicle parking system

[NASA-CASE-NPO-13058-1] c 37 N77-22480

AUTOMOBILE ENGINES

Automotive gas turbine fuel control

[NASA-CASE-LEW-12785-1] c 37 N78-24545

Controller for computer control of brushless dc motors --- automobile engines

[NASA-CASE-NPO-13970-1] c 33 N81-20352

AUTOMOBILE FUELS

Hydrogen rich gas generator

[NASA-CASE-NPO-13342-2] c 44 N76-29700

AUTONOMOUS NAVIGATION

Autonomous navigation system --- gyroscopic pendulum for air navigation

[NASA-CASE-ARC-11257-1] c 04 N81-21047

Bi-level shared control for teleoperators

[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036

AUTONOMY

Closed-loop autonomous docking system

[NASA-CASE-MFS-28421-1] c 18 N92-28750

AUXILIARY POWER SOURCES

Independent power generator

[NASA-CASE-LAR-11208-1] c 44 N78-32539

Electrical power generating system

[NASA-CASE-MFS-25302-1] c 33 N83-28319

AVERAGE

Method of and apparatus for generating an interstitial point in a data stream having an even number of data points

[NASA-CASE-MFS-25319-1] c 60 N85-33701

AVIONICS

Aircraft control position indicator

[NASA-CASE-LAR-12984-1] c 06 N87-22678

AXES (REFERENCE LINES)

Moment of inertia test fixture Patent

[NASA-CASE-XGS-01023] c 14 N71-22992

Universal restrainer and joint Patent

[NASA-CASE-XNP-02278] c 15 N71-28951

Focal axis resolver for offset reflector antennas

[NASA-CASE-GSC-12630-1] c 33 N83-36355

AXES OF ROTATION

Three axis controller Patent

[NASA-CASE-XFR-00181] c 21 N70-33279

Proportional controller Patent

[NASA-CASE-XAC-03392] c 03 N70-41954

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent

[NASA-CASE-XMF-00684] c 21 N71-21688

Controllers Patent

[NASA-CASE-XMS-07487] c 15 N71-23255

Aircraft body-axis rotation measurement system

[NASA-CASE-FRC-11043-1] c 06 N83-33882

Centrifugal-reciprocating compressor

[NASA-CASE-NPO-14597-2] c 37 N84-28081

Shoulder and hip joint for hard space suits

[NASA-CASE-ARC-11543-1] c 54 N86-28620

AXIAL COMPRESSION LOADS

Impact monitoring apparatus

[NASA-CASE-MSC-15626-1] c 14 N72-25411

Compression test apparatus

[NASA-CASE-MSC-18723-1] c 35 N83-21312

AXIAL FLOW

Monogroove heat pipe design: Insulated liquid channel with bridging wick

[NASA-CASE-MSC-20497-1] c 34 N85-29180

Wingtip vortex propeller

[NASA-CASE-LAR-13019-1] c 07 N85-35194

AXIAL FLOW PUMPS

Dual motion valve with single motion input

[NASA-CASE-MFS-28058-1] c 37 N87-21332

Rotor self-lubricating axial stop

[NASA-CASE-MFS-28273-1] c 37 N88-23974

AXIAL FLOW TURBINES

Multistage multiple-reentry turbine Patent

[NASA-CASE-XLE-00170] c 15 N70-36412

Multistage multiple-reentry turbine Patent

[NASA-CASE-XLE-00085] c 28 N70-39895

Method and turbine for extracting kinetic energy from a stream of two-phase fluid

[NASA-CASE-NPO-14130-1] c 34 N79-20335

Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

AZIMUTH
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

AZINES
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

AZO COMPOUNDS
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177

AZOLES
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N92-28751
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141

B

BACK INJURIES
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

BACKGROUND NOISE
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

BACKGROUND RADIATION
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

BACKSCATTERING
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

BACKUPS
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018

BACKWARD WAVES
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

BACTERIA
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BACTERIOLOGY
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677

BAFFLES
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

BAGS
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

BAKING
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

BALANCE
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

BALANCING
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

BALL BEARINGS
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N92-29138

BALLAST
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

BALLAST (MASS)
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006

BALLASTS (IMPEDANCES)
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

BALLISTICS
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

BALLOON SOUNDING
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039

BALLOON-BORNE INSTRUMENTS
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010

BALLOONS
Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

BALLS
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Flexible robotic arm
[NASA-CASE-GSC-13161-1] c 37 N92-33634

BANDPASS FILTERS
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241

BANDWIDTH
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

BARIUM
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

BARIUM COMPOUNDS
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

BARIUM FLUORIDES
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

BARIUM ION CLOUDS

Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

BARIUM OXIDES

An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

BARIUM TITANATES

Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

BARRIER LAYERS

Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N92-23464
An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

BARRIERS

Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

BARS

Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Bar-holding prosthetic limb
[NASA-CASE-MFS-28481-1] c 54 N92-24056

BASES (CHEMICAL)

Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

BATHING

Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137

BATHS

Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

BATTERY CHARGERS

Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

BAYARD-ALPERT IONIZATION GAGES

Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

BAYS (STRUCTURAL UNITS)

Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727

BEADS

Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BEAM LEADS

Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

BEAM SPLITTERS

Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305

Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

BEAM SWITCHING

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11780-1] c 33 N75-19516
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

BEAM WAVEGUIDES

Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

BEAMS (RADIATION)

Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336

BEAMS (SUPPORTS)

Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199

BEARING

Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
BEARING (DIRECTION)
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

BEARINGS

Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584
Bearing servicing tool
[NASA-CASE-MSC-21881-1] c 37 N92-30082
Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-34174

BEDS (PROCESS ENGINEERING)

Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

BEER LAW

A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

BEES

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

BELLOWS

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

BELTS

Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

BEND TESTS

Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

BENDING

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679

- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
- Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866
- BENDING DIAGRAMS**
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
- BENDING FATIGUE**
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
- BENDING MOMENTS**
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- BENDING VIBRATION**
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274] c 14 N71-17626
- BENZENE**
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953
- BERYLLIUM ALLOYS**
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- BERYLLIUM HYDRIDES**
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228
- BERYLLIUM OXIDES**
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- BIDIRECTIONAL REFLECTANCE**
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253
- BIMETALS**
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- BINARY CODES**
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Binary concatenated coding system
[NASA-CASE-MS-C-14082-1] c 60 N76-23850
- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MS-C-16461-1] c 33 N79-11313
- BINARY DATA**
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Differential phase shift keyed communication system
[NASA-CASE-MS-C-14065-1] c 32 N74-26654
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
- BINARY DIGITS**
Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Binary concatenated coding system
[NASA-CASE-MS-C-14082-1] c 60 N76-23850
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
- BINARY FLUIDS**
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
- BINARY TO DECIMAL CONVERTERS**
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- BINDERS (MATERIALS)**
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461
Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208
- BINOCULARS**
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
- BIOASSAY**
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MS-C-16260-1] c 51 N80-16714
- BIODEGRADATION**
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- BIODYNAMICS**
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Kinesimetric method and apparatus
[NASA-CASE-MS-C-18929-1] c 39 N83-20280
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795
- BIOELECTRIC POTENTIAL**
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MS-C-90153-2] c 05 N72-25120
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- BIOELECTRICITY**
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- BIOENGINEERING**
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Urine collection device
[NASA-CASE-MS-C-16433-1] c 52 N81-24711
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MS-C-18761-1] c 52 N83-27577
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- BIOINSTRUMENTATION**
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MS-C-13282-1] c 05 N71-24729
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780

Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772

Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716

Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580

Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

Pulse transducer with artifact signal attenuator — heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

BIOLOGICAL EFFECTS

Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700

Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790

BIO Luminescence

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794

Rapid, quantitative determination of bacteria in water — adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BIO MEDICAL DATA

Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440

Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771

BIOMETRICS

Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346

Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103

Ultrasonic biomedical measuring and recording apparatus — for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726

Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835

Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580

Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771

Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703

Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

Rapid quantification of an internal property — ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

BIOPROCESSING

Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701

BIOREACTORS

Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703

Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700

Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701

Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667

Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486

Three-dimensional cultured glioma cell lines
[NASA-CASE-MSC-21843-1-NP] c 51 N92-24052

Three-dimensional co-culture process
[NASA-CASE-MSC-21560-1] c 51 N92-34229

Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231

High aspect reactor vessel and method of use
[NASA-CASE-MSC-21662-1] c 51 N92-34232

BIOTECHNOLOGY

Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703

Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700

Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

BIOTELEMETRY

Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342

Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Medical subject monitoring systems — multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347

Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894

BIPOLAR TRANSISTORS

Voltage regulator for battery power source — using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345

Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

High-gain AlGaAs/GaAs double heterojunction Darling phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841

Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

BIPOLARITY

Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245

BIREFRINGENCE

Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101

Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

BIREFRINGENT FILTERS

Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

BISMALIMIDE

Amine terminated bisaspartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726

Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304

Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560

Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

BISMUTH

Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241

BISMUTH COMPOUNDS

Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

BISTABLE CIRCUITS

AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

BIT ERROR RATE

Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

BIT SYNCHRONIZATION

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333

Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140

Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149

Method and apparatus for a single channel digital communications system — synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

BITERNARY CODE

Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

BITS

Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103

MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210

Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

BITUMENS

Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

BLACK BODY RADIATION

Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625

Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323

Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

BLADDER

Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660

Rapid quantification of an internal property — ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

BLADE TIPS

Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

BLADES

Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

BLADES (CUTTERS)

Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017

Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773

Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

BLAST LOADS

Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

BLOCK COPOLYMERS

Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792

BLOOD

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

Dialysis system — using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

BLOOD FLOW

Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

BLOOD PRESSURE

Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317

Apparatus and method for processing Korotkov sounds — for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626

Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

Circuit for detecting initial systole and diastolic notch — for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

BLOOD VESSELS

Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

BLUFF BODIES

Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

BLUNT BODIES

Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

BODIES OF REVOLUTION

Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

BODY FLUIDS

Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

BODY KINEMATICS

Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Kinesimetric method and apparatus
[NASA-CASE-ARC-18929-1] c 39 N83-20280

BODY MEASUREMENT (BIOLOGY)

Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Kinesimetric method and apparatus
[NASA-CASE-ARC-18929-1] c 39 N83-20280
Apparatus for determining changes in limb volume
[NASA-CASE-ARC-18759-1] c 52 N83-27578

BODY TEMPERATURE

Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BODY VOLUME (BIOLOGY)

Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-ARC-13972-1] c 52 N74-10975
Apparatus for determining changes in limb volume
[NASA-CASE-ARC-18759-1] c 52 N83-27578

BODY-WING CONFIGURATIONS

Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

BOILERS

Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Induction boiler
[NASA-CASE-MFS-28634-1] c 37 N92-24055

BOILING

Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

BOLOMETERS

Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

BOLTED JOINTS

Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
Robot-friendly connector --- space truss structures
[NASA-CASE-ARC-21864-1] c 37 N92-23544

BOLTS

Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377

BONDING

Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-ARC-14182-1] c 27 N76-14264
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-ARC-18741-1] c 27 N82-29456
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-ARC-18382-2] c 27 N84-14324
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
A method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859

BONES

Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-ARC-14276-1] c 52 N77-14737
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

BOOLEAN ALGEBRA

VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

BOOMS (EQUIPMENT)

Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Space station erectable manipulator placement system
[NASA-CASE-ARC-21096-1] c 18 N89-12621

BOOSTER RECOVERY

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781

BOOSTER ROCKET ENGINES

Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584

BOOTS (FOOTWEAR)

Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675

BOREHOLES

Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

BORIDES

Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

BORING MACHINES

Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709

BORON

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

BORON CARBIDES

Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

BORON CHLORIDES

Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698

BORON COMPOUNDS

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

BORON FLUORIDES

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

BORON OXIDES

Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026

BOROSILICATE GLASS

Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520

Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026

Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097

BOULES

Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

BOUNDARY CONDITIONS

Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

BOUNDARY LAYER CONTROL

Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
Method of reducing drag in aerodynamic systems
[NASA-CASE-LEW-14791-1] c 02 N92-34243

BOUNDARY LAYER FLOW

Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

BOUNDARY LAYER SEPARATION

- Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
- Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

BOUNDARY LAYER TRANSITION

- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
- Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562

BOUNDARY LAYERS

- Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

BOXES (CONTAINERS)

- Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
- Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

BRACKETS

- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
- Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
- Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N92-29092

BRAGG CELLS

- Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392

BRAILLE

- Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BRAKES

- Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181

BRAKES (FOR ARRESTING MOTION)

- Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
- Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
- Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
- Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
- Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

BRAKING

- Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
- Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
- Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
- Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728

BRAZING

- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
- Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
- Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

- Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455

BREATHING APPARATUS

- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
- Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
- Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

BRICKS

- Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921

BRIDGMAN METHOD

- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

BRIGHTNESS

- Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

BRIGHTNESS DISCRIMINATION

- Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
- Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
- Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890

BRITTLENESS

- Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
- Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

BROADBAND

- Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
- Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
- Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
- High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
- Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
- Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012

BROADBAND AMPLIFIERS

- Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
- Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

BROADCASTING

- Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
- Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
- Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

BROMINATION

- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090

BROMINE

- Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
- Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090

BROMINE COMPOUNDS

- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

BRONZES

- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

BRUSH SEALS

- High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318

BRUSHES

- Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818

BRUSHES (ELECTRICAL CONTACTS)

- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

BUBBLES

- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

BUCKLING

- Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
- Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

BUFFER STORAGE

- Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04182-1] c 08 N70-34675
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
- Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
- Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BUFFERS (CHEMISTRY)

- Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

BUILDINGS

- Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454

BULBS

- External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362

BULKHEADS

- Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
- Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
- Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727

BUOYANCY

- Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

BURNERS

- Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

BURNING RATE

- Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
- Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
- Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

BURNOUT

- Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381

BURNS (INJURIES)

- Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

BUS CONDUCTORS

- Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

BUSHINGS

- Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221

BUTANES

- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BUTT JOINTS

- Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
- Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
- Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376

BUTTERFLY VALVES

- Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
- Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

BUTYRIC ACID

- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BYPASSES

- Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
- Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
- Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

C**CABLE FORCE RECORDERS**

- Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

CABLES

- Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
- Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

CABLES (ROPES)

- High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
- Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
- Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
- Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
- Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
- Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
- Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
- Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
- Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
- Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
- Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
- Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N92-34212

CADMIUM COMPOUNDS

- Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
- Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186

CADMIUM SULFIDES

- High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
- CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

CALCIUM

- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

CALCIUM FLUORIDES

- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

CALCIUM OXIDES

- Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CALCIUM PHOSPHATES

- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

CALCULATORS

- Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552

CALCULI

- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

CALIBRATING

- Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
- Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
- Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
- Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
- System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
- In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
- Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
- Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
- Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392
- Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
- Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
- Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
- Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
- Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- Calibration apparatus for recess mounted pressure transducers
[NASA-CASE-LAR-14724-1] c 35 N92-30030

CALORIMETERS

- Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
- Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859

- Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426

CAMERA SHUTTERS

- Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
- Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861

CAMERAS

- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
- Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
- Film feed camera having a detent means Patent
[NASA-CASE-MFS-10686] c 14 N71-26935
- Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
- Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
- On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
- Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
- Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
- Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
- Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
- Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
- Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864
- Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
- Polarization perception device
[NASA-CASE-MSC-21915-1] c 74 N92-30027

CAMS

- Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
- Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

CANARD CONFIGURATIONS

- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

CANCER

- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

CANNING

- One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493

CANOPIES

- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
- Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

CANS

- Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
- Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
- Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

CANTILEVER BEAMS

- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045

- Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
- CANTILEVER MEMBERS**
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
- CAPACITANCE**
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785
- CAPACITANCE SWITCHES**
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
- CAPACITORS**
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MS-14339-1] c 05 N75-24716
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14418-1] c 32 N92-31257

CAPILLARY FLOW

- Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

CAPILLARY TUBES

- Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

CARBAZOLES

- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698

CARBIDES

- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

CARBOHYDRATES

- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MS-21936-1] c 25 N92-19486

CARBON

- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MS-16497-1] c 25 N82-12166
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206

CARBON ARCS

- Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

CARBON COMPOUNDS

- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206

CARBON DIOXIDE

- Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Miniature carbon dioxide sensor and methods
[NASA-CASE-MS-13332-1] c 14 N72-21408
Metabolic rate meter and method
[NASA-CASE-MS-12239-1] c 52 N79-21750

- Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222
Converting a CO₂ atmosphere to a high-purity O₂ supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098

CARBON DIOXIDE LASERS

- Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427

CARBON DIOXIDE REMOVAL

- Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MS-14771-1] c 54 N77-32722
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MS-16182-1] c 54 N80-10799
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MS-21629-1] c 54 N91-31803

CARBON FIBER REINFORCED PLASTICS

- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260

CARBON FIBERS

- Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
Intercalated hybrid graphite fiber composite
[NASA-CASE-LEW-15241-1] c 24 N92-17861

CARBON MONOXIDE

- Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270

CARBON-CARBON COMPOSITES

- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

CARBONACEOUS MATERIALS

- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

CARBONATES

- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

CARBONIZATION

- Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

CARBONYL COMPOUNDS

- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N92-33008

Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N92-33015

CARBORANE
Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Carboranymethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

CARBOXYL GROUP
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929

CARBOXYLIC ACIDS
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

CARCINOGENS
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

CARDIAC VENTRICLES
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

CARDIOGRAPHY
Digital cardiotaehometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

CARDIOLOGY
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

CARDIOTACHOMETERS
Digital computing cardiotaehometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

CARDIOVASCULAR SYSTEM
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

CARGO
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727

CARRIER FREQUENCIES
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

CARRIER LIFETIME
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

CARRIER WAVES
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

CARRIERS
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

CARTESIAN COORDINATES
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N92-22039

CARRIDGES
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

CASCADE CONTROL
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

CASCADE FLOW
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Degassing and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

CASE BONDED PROPELLANTS
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

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Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

CASSEGRAIN ANTENNAS
Casseggrain antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

CASSEGRAIN OPTICS
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999

CASTING
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091
Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014

Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 N92-34214

CASTINGS
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

CATALYSIS
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374

CATALYSTS
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270

CATALYTIC ACTIVITY
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

CATCHERS
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007

CATHETERIZATION
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

CATHODE RAY TUBES
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

CATHODES
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190

- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
- Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
- Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
- Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
- Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
- Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
- Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222
- CATHOLYTES**
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
- CATIONS**
Ionen membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- CAVITATION FLOW**
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
- CAVITIES**
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
- Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
- Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
- Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156
- CAVITY RESONATORS**
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
- Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
- Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
- Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384

- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678
- Electro-optic resonant phase modulator
[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551
- CELESTIAL BODIES**
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
- CELESTIAL NAVIGATION**
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
- CELL ANODES**
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
- Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
- CELL DIVISION**
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- CELLS**
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- CELLS (BIOLOGY)**
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
- Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
- Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
- Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667
- Three-dimensional cultured glioma cell lines
[NASA-CASE-MSC-21843-1-NP] c 51 N92-24052
- Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728
- Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790
- Three-dimensional co-culture process
[NASA-CASE-MSC-21560-1] c 51 N92-34229
- Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231
- High aspect reactor vessel and method of use
[NASA-CASE-MSC-21662-1] c 51 N92-34232
- CELLULOSE**
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486
- CELLULOSE NITRATE**
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- CENTERBODIES**
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- CENTRAL PROCESSING UNITS**
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- CENTRIFUGAL COMPRESSORS**
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081

- CENTRIFUGAL FORCE**
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
- Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010
- CENTRIFUGES**
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
- CERAMIC BONDING**
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- CERAMIC COATINGS**
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[NASA-CASE-XLA-03105] c 15 N69-27483
- Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
- Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
- Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
- Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
- Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
- CERAMIC HONEYCOMBS**
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
- CERAMIC MATRIX COMPOSITES**
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
- Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
- CERAMIC NUCLEAR FUELS**
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- CERAMICS**
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
- Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
- Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
- Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MS-12619-2] c 27 N79-12221
- High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
- Lightweight ceramic insulation and method
[NASA-CASE-MS-20782-1] c 27 N90-23566
- Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
- Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
- Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N91-25202
- Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
- Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
- Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
- Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
- Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529
- Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
- Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725
- Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461
- Boron-carbon-silicon polymers and ceramic and a process for the production thereof
[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160
- CEREBROSPINAL FLUID**
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- CERMETS**
- Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
- Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- CESIUM**
- Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
- Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- CESIUM DIODES**
- Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
- Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- CESIUM ENGINES**
- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- CESIUM VAPOR**
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- CHALCOGENIDES**
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- CHAMBERS**
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- CHANGE DETECTION**
- Real-time image difference detection using a polarization rotation spacial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
- CHANNEL FLOW**
- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Heated element fluid flow sensor Patent
[NASA-CASE-MS-12084-1] c 12 N71-17569
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- CHANNELS (DATA TRANSMISSION)**
- Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
- Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- CHARACTER RECOGNITION**
- Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
- System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
- CHARACTERIZATION**
- Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
- CHARGE COUPLED DEVICES**
- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
- X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
- Portable dynamic fundus instrument
[NASA-CASE-MS-21675-1] c 52 N92-28755
- CHARGE DISTRIBUTION**
- Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- CHARGE EFFICIENCY**
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- CHARGE EXCHANGE**
- Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- CHARGE TRANSFER**
- Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
- Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753
- CHARGE TRANSFER DEVICES**
- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
- Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- CHARGED PARTICLES**
- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
- Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
- Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- CHARGING**
- Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- CHARRING**
- Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
- Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- CHASSIS**
- Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
- Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
- CHECKOUT**
- Electronic checkout system for space vehicles Patent
[NASA-CASE-KKS-08012-2] c 31 N71-15566
- Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- CHELATES**
- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
- CHEMICAL ANALYSIS**
- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645

- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- CHEMICAL AUXILIARY POWER UNITS**
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- CHEMICAL BONDS**
- Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676
- CHEMICAL COMPOSITION**
- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- Novel polyimide compositions based on 4,4'-isophthaloyldipthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
- Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
- Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N92-25399
- Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N92-28751
- Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141
- CHEMICAL COMPOUNDS**
- Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- CHEMICAL ELEMENTS**
- Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- CHEMICAL ENGINEERING**
- Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
- CHEMICAL EXPLOSIONS**
- Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084
- CHEMICAL INDICATORS**
- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
- CHEMICAL MACHINING**
- Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
- CHEMICAL PROPERTIES**
- Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

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- Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4,5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
- Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
- Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
- High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
- Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
- Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
- Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
- Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
- Firely pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
- Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- Polyurethanes from fluoroalkyl propylene glycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- Process for producing tris (n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450

- Preparation of B-trichloroborazane
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
- The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
- Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
- Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882
- Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N92-28751
- Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953
- CHEMICAL REACTORS**
- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
- Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
- CHEMICAL TESTS**
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- CHEMILUMINESCENCE**
- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
- CHEMISORPTION**
- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
- CHEMOTHERAPY**
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
- CHIPS (ELECTRONICS)**
- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
- Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
- Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
- Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196
- VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N92-33011
- Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
- CHIPS (MEMORY DEVICES)**
- VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

CHIRP SIGNALS

Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

CHLORIDES

The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066

CHLORINATION

Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

CHLORINE

Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

CHLOROPRENE RESINS

Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814

CHOKES

Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

CHOKES (RESTRICTIONS)

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724

CHOLESTEROL

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

CHROMATOGRAPHY

Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

CHROMIUM

Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

CHROMIUM ALLOYS

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

CHROMIUM CARBIDES

Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244

CHROMIUM COMPOUNDS

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

CHROMOSOMES

Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

CINEMATOGRAPHY

High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

CIRCLES (GEOMETRY)

Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N92-22039

CIRCUIT BOARDS

Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685

Polyimide resin-fiberglass cloth laminates for printed circuit boards

[NASA-CASE-MFS-20408] c 18 N73-12604
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

CIRCUIT BREAKERS

Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

CIRCUIT DIAGRAMS

Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

CIRCUIT PROTECTION

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537

CIRCUIT RELIABILITY

Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

CIRCUITS

Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Fail-safe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389

Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N92-31788
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018

CIRCULAR CONES
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298

CIRCULAR CYLINDERS
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

CIRCULAR POLARIZATION
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

CIRCULAR TUBES
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677

CIRCULATION CONTROL AIRFOILS
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

CIRCULATORS (PHASE SHIFT CIRCUITS)
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372

CIRCUMFERENCES
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706

CLADDING
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199

CLAMPING CIRCUITS
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

CLAMPS
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696

Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221
Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655

CLASSIFICATIONS
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

CLAYS
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

CLEAN ROOMS
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

CLEANERS
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137

CLEANING
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222

CLEAR AIR TURBULENCE
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N92-29148

CLEARANCES
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

CLEAVAGE
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

CLIMBING FLIGHT
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

CLINICAL MEDICINE
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612

CLIPS
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

CLOCKS
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

CLOSED CIRCUIT TELEVISION
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186

CLOSED CYCLES
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

CLOSED ECOLOGICAL SYSTEMS
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

CLOSTRIDIUM
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

CLOSURES
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

CLOUD CHAMBERS
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

CLOUD COVER
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

CLOUDS (METEOROLOGY)
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862

CLUTCHES
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

CLUTTER
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

CMOS
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

Nonvolatile programmable neural network synaptic array
[NASA-CASE-NPO-18578-1-CU] c 33 N92-30086

COAGULATION
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

COAL
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370

Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711

Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371

Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

COAL GASIFICATION
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475

Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583

Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

COAL LIQUEFACTION
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

COAL UTILIZATION
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527

Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154

Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144

COATING
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705

Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436

Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854

Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298

A shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1] c 39 N92-30317

Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014

COATINGS
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400

High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164

Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551

Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

Method of inserting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424

Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397

COAXIAL CABLES
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445

Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851

Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597

Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191

Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391

Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469

System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430

High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

Coaxial turnstile junction
[NASA-CASE-GSC-13422-1] c 33 N92-23462

COAXIAL PLASMA ACCELERATORS
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951

COBALT
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571

Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COBALT ALLOYS
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025

High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415

COBALT COMPOUNDS
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025

Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

COBALT OXIDES
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

COCKPIT SIMULATORS
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

COCKPITS
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

CODERS

Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407

Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946

Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133

CODING

Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749

Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217

Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133

COEFFICIENT OF FRICTION

Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

COENZYMES

Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

COHERENT ELECTROMAGNETIC RADIATION

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550

Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551

Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065

COHERENT LIGHT

Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565

Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895

Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994

COHERENT RADIATION

Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536

Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009

Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425

Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

COINCIDENCE CIRCUITS

Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331

COLD CATHODES

Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327

COLD GAS

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

COLD WELDING

- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- COLD WORKING**
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- COLLAPSE**
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
- COLLECTION**
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- COLLIMATION**
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
- COLLIMATORS**
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Multiple focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336
- COLLISION AVOIDANCE**
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
- COLLISIONS**
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
- COLLOIDAL GENERATORS**
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- COLLOIDAL PROPELLANTS**
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

COLLOIDS

- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- COLOR**
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Single layer multi-color luminescent display
[NASA-CASE-LAR-13618-1] c 74 N91-31950
Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389
- COLOR PHOTOGRAPHY**
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- COLOR TELEVISION**
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- COLOR VISION**
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- COLUMNS**
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- COLUMNS (PROCESS ENGINEERING)**
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- COLUMNS (SUPPORTS)**
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
- COMBINATORIAL ANALYSIS**
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- COMBINED CYCLE POWER GENERATION**
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- COMBINED STRESS**
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028
- COMBUSTION**
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- COMBUSTION CHAMBERS**
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968

- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
Combustor liner-construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
- COMBUSTION CONTROL**
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
- COMBUSTION EFFICIENCY**
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- COMBUSTION PHYSICS**
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- COMBUSTION PRODUCTS**
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
- COMBUSTION STABILITY**
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
- COMET TAILS**
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- COMFORT**
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- COMMAND AND CONTROL**
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289

- Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
- COMMAND MODULES**
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
- COMMUNICATING**
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
- COMMUNICATION**
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
- COMMUNICATION CABLES**
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- COMMUNICATION EQUIPMENT**
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
- COMMUNICATION NETWORKS**
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- COMMUNICATION SATELLITES**
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- COMMUTATION**
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- COMMUTATORS**
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
- COMPARATOR CIRCUITS**
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
- COMPARATORS**
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709
- COMPARTMENTS**
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N92-34171
- COMPATIBILITY**
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792
- COMPENSATORS**
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
- COMPLEX COMPOUNDS**
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
- COMPLEX SYSTEMS**
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
- COMPONENT RELIABILITY**
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
- COMPOSITE MATERIALS**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208
- COMPOSITE PROPELLANTS**
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- COMPOSITE STRUCTURES**
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149

Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
 [NASA-CASE-ARC-11040-2] c 24 N78-27184
 Aluminium or copper substrate panel for selective absorption of solar energy
 [NASA-CASE-MFS-23518-3] c 44 N80-16452
 Lightweight structural columns --- space erectable trusses
 [NASA-CASE-LAR-12095-1] c 31 N81-25258
 Optimized bolted joint
 [NASA-CASE-LAR-13250-1] c 37 N86-27630
 Light weight fire resistant graphite composites
 [US-PATENT-4,598,007] c 24 N86-28131
 Ceramic honeycomb structures and the method thereof
 [NASA-CASE-ARC-11652-1] c 27 N87-23737
 Composite piston
 [NASA-CASE-LAR-13435-1] c 37 N88-23981
 Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
 [NASA-CASE-LAR-13562-1] c 24 N90-25196
 Method of inseting predesigned disbond areas into composite laminates
 [NASA-CASE-LAR-13225-1] c 24 N90-25197
 Process for HIP canning of composites
 [NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
 Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
 [NASA-CASE-LAR-13562-2] c 24 N91-25199
 Glove attachment
 [NASA-CASE-MS-C-21632-1] c 54 N92-34210
COMPOSITION (PROPERTY)
 Moving particle composition analyzer
 [NASA-CASE-GSC-11889-1] c 35 N76-16393
COMPRESSED AIR
 Valve actuator Patent
 [NASA-CASE-XHQ-01208] c 15 N70-35409
COMPRESSIBILITY
 Nozzle extraction process and handmeter for measuring handle
 [NASA-CASE-LAR-12147-1] c 31 N79-11246
 Compression pylon
 [NASA-CASE-LAR-13777-1] c 05 N90-20078
 Preloaded latching device
 [NASA-CASE-MS-C-21730-1] c 37 N91-23493
 Natural flow wing
 [NASA-CASE-LAR-14281-1] c 02 N92-28729
COMPRESSIBLE FLUIDS
 Apparatus having coaxial capacitor structure for measuring fluid density Patent
 [NASA-CASE-XLE-00143] c 14 N70-36618
 Apparatus for tensile testing Patent
 [NASA-CASE-XKS-06250] c 14 N71-15600
COMPRESSING
 Refrigeration apparatus Patent
 [NASA-CASE-XNP-08877] c 15 N71-23025
 Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
 [NASA-CASE-LAR-10489-1] c 31 N74-18124
 Dynamic range compression/expansion of light beams by photorefractive crystals
 [NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
 Mechanical end joint system for connecting structural column elements
 [NASA-CASE-LAR-14465-1] c 37 N91-14614
 Method of fabricating composite structures
 [NASA-CASE-MFS-28390-1] c 24 N91-15333
 Preloaded latching device
 [NASA-CASE-MS-C-21730-1] c 37 N91-23493
 Polyimides with improved compression moldability
 [NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
COMPRESSION LOADS
 Pressure transducer
 [NASA-CASE-NPO-10832] c 14 N72-21405
 Solid medium thermal engine
 [NASA-CASE-ARC-10461-1] c 44 N74-33379
 Locking redundant link
 [NASA-CASE-LAR-11900-1] c 37 N79-14382
 Fixture for environmental exposure of structural materials under compression load
 [NASA-CASE-LAR-12602-1] c 39 N83-32081
 Deployable M-braced truss structure
 [NASA-CASE-LAR-13081-1] c 37 N86-32737
 Metallic threaded composite fastener
 [NASA-CASE-MS-C-21580-1] c 37 N92-21726
 Natural flow wing
 [NASA-CASE-LAR-14281-1] c 02 N92-28729
 Apparatus for elevated temperature compression or tension testing of specimens
 [NASA-CASE-LAR-14775-1] c 39 N92-30099
COMPRESSION RATIO
 Automatic compression adjusting mechanism for internal combustion engines
 [NASA-CASE-MS-C-18807-1] c 37 N83-36483

COMPRESSION TESTS

Compression test assembly
 [NASA-CASE-LAR-10440-1] c 14 N73-32323
 Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
 [NASA-CASE-LAR-10426-1] c 09 N74-19528
 Compression test apparatus
 [NASA-CASE-MS-C-18723-1] c 35 N83-21312
 Bearing-bypass material system test
 [NASA-CASE-LAR-13458-1] c 35 N88-23967
 Apparatus for elevated temperature compression or tension testing of specimens
 [NASA-CASE-LAR-14775-1] c 39 N92-30099
COMPRESSIVE STRENGTH
 Truss-core corrugation for compressive loads
 [NASA-CASE-LAR-13438-1] c 31 N89-12786
COMPRESSOR BLADES
 Welding blades to rotors
 [NASA-CASE-LEW-10533-1] c 15 N73-28515
 Control means for a gas turbine engine
 [NASA-CASE-LEW-14586-1] c 07 N83-31603
COMPRESSOR ROTORS
 Active clearance control system for a turbomachine
 [NASA-CASE-LEW-12938-1] c 07 N82-32366
COMPRESSORS
 Thermal pump-compressor for space use Patent
 [NASA-CASE-XLA-00377] c 33 N71-17610
 Self-energized plasma compressor
 [NASA-CASE-MFS-22145-2] c 75 N76-17951
 Gas compression apparatus
 [NASA-CASE-MS-C-14757-1] c 35 N78-10428
 Composite seal for turbomachinery
 [NASA-CASE-LEW-12131-2] c 37 N80-26658
 Cycling Joule Thomson refrigerator
 [NASA-CASE-NPO-15251-1] c 31 N83-31897
 Magnetically actuated compressor
 [NASA-CASE-GSC-12799-1] c 31 N85-21404
 Oxygen chemisorption cryogenic refrigerator
 [NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
 Method of reducing drag in aerodynamic systems
 [NASA-CASE-LEW-14791-1] c 02 N92-34243
COMPUTATION
 Apparatus for computing square roots Patent
 [NASA-CASE-XGS-04768] c 08 N71-19437
 Ruler for making navigational computations
 [NASA-CASE-XNP-01458] c 04 N78-17031
COMPUTATIONAL FLUID DYNAMICS
 Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
 [NASA-CASE-LAR-14815-1-CU] c 34 N92-29830
COMPUTATIONAL GRIDS
 Two dimensional vernier
 [NASA-CASE-MS-C-21700-1] c 35 N92-22039
COMPUTER AIDED MAPPING
 Programmable remapper for image processing
 [NASA-CASE-MS-C-21350-1] c 60 N92-16563
COMPUTER ANIMATION
 Generation of animation sequences of three dimensional models
 [NASA-CASE-MS-C-21379-1-SB] c 61 N90-27340
COMPUTER ASSISTED INSTRUCTION
 System and method for a general purpose architecture for intelligent computer-aided training
 [NASA-CASE-MS-C-21381-1] c 63 N91-13944
COMPUTER COMPONENTS
 Counter and shift register Patent
 [NASA-CASE-XNP-01753] c 08 N71-22897
 Binary to binary coded decimal converter
 [NASA-CASE-GSC-12044-1] c 60 N78-17691
 Computer circuit card puller
 [NASA-CASE-FRC-11042-1] c 60 N82-24839
 Control means for a solid state crossbar switch
 [NASA-CASE-NPO-15066-1] c 33 N82-29538
 Neighborhood comparison operator
 [NASA-CASE-NPO-16464-1-CU] c 60 N86-24224
 Real time pipelined system for forming the sum of products in the processing of video data
 [NASA-CASE-NPO-16462-1-CU] c 60 N88-24169
COMPUTER DESIGN
 Two-dimensional radiant energy array computers and computing devices
 [NASA-CASE-GSC-11839-1] c 60 N77-14751
 Massively parallel processor computer
 [NASA-CASE-GSC-12223-1] c 60 N83-25378
 Distributed multiport memory architecture
 [NASA-CASE-NPO-15342-1] c 60 N83-32342
 Automatic multi-banking of memory for microprocessors
 [NASA-CASE-NPO-15295-1] c 60 N85-21992
COMPUTER GRAPHICS
 System for quantizing graphic displays
 [NASA-CASE-NPO-10745] c 08 N72-22164
 Generation of animation sequences of three dimensional models
 [NASA-CASE-MS-C-21379-1-SB] c 61 N90-27340

Airplane takeoff and landing performance monitoring system
 [NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
 Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
 [NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
COMPUTER INFORMATION SECURITY
 Computer access security code system
 [NASA-CASE-NPO-17525-1-CU] c 60 N90-25583
COMPUTER NETWORKS
 High-speed data link for moderate distances and noisy environments
 [NASA-CASE-NPO-14152-1] c 32 N80-18252
 Common data buffer system --- communication with computational equipment utilized in spacecraft operations
 [NASA-CASE-KSC-11048-1] c 62 N81-24779
 Multicomputer communication system
 [NASA-CASE-NPO-15433-1] c 32 N85-21428
 Distributed computing system with dual independent communications paths between computers and employing split tokens
 [NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
 Dynamic resource allocation scheme for distributed heterogeneous computer systems
 [NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
 Network of dedicated processors for finding lowest-cost map path
 [NASA-CASE-NPO-17716-1-CU] c 62 N92-15620
 Cascaded VLSI neural network architecture for on-line learning
 [NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
COMPUTER PROGRAMMING
 Minimal logic block encoder Patent
 [NASA-CASE-NPO-10595] c 10 N71-25917
 Priority interrupt system --- comprised of four registers
 [NASA-CASE-NPO-13067-1] c 60 N76-18800
 Bus programmable slave module
 [NASA-CASE-MS-C-21387-1] c 61 N90-16411
 Neural-network dedicated processor for solving competitive assignment problems
 [NASA-CASE-NPO-17781-1-CU] c 60 N92-17884
 Analog hardware for delta-backpropagation neural networks
 [NASA-CASE-NPO-17564-1-CU] c 32 N92-22033
COMPUTER PROGRAMS
 Self-testing and repairing computer Patent
 [NASA-CASE-NPO-10567] c 08 N71-24633
 Program for computer aided reliability estimation
 [NASA-CASE-NPO-13086-1] c 15 N73-12495
 Numerical computer peripheral interactive device with manual controls
 [NASA-CASE-NPO-11497] c 08 N73-25206
 Local area network with fault-checking, priorities, and redundant backup
 [NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
 Programmable remapper for image processing
 [NASA-CASE-MS-C-21350-1] c 60 N92-16563
 Encyclopedia of software components
 [NASA-CASE-NPO-18435-1-CU] c 61 N92-30543
COMPUTER STORAGE DEVICES
 Magnetic matrix memory system Patent
 [NASA-CASE-XMF-05835] c 08 N71-12504
 Binary sequence detector Patent
 [NASA-CASE-XNP-05415] c 08 N71-12505
 Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
 [NASA-CASE-XGS-03303] c 08 N71-18595
 Drive circuit utilizing two cores Patent
 [NASA-CASE-XNP-01318] c 10 N71-23033
 Programmable telemetry system Patent
 [NASA-CASE-GSC-10131-1] c 07 N71-24624
 Serial digital decoder Patent
 [NASA-CASE-NPO-10150] c 08 N71-24650
 Digital memory in which the driving of each word location is controlled by a switch core Patent
 [NASA-CASE-XNP-01466] c 10 N71-26434
 Redundant memory organization Patent
 [NASA-CASE-GSC-10564] c 10 N71-29135
 Semiconductor-ferroelectric memory device
 [NASA-CASE-ERC-10307] c 08 N72-21198
 Shared memory for a fault-tolerant computer
 [NASA-CASE-NPO-13139-1] c 60 N76-21914
 Distributed multiport memory architecture
 [NASA-CASE-NPO-15342-1] c 60 N83-32342
 Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
 [NASA-CASE-MFS-25319-1] c 60 N85-33701
 High speed magneto-resistive random access memory
 [NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
 Asymmetric soft-error resistant memory
 [NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
 Integrated, non-volatile, high-speed analog random access memory
 [NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132

Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386

COMPUTER SYSTEMS DESIGN

Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920

Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721

Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542

Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884

COMPUTER TECHNIQUES

Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245

Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421

Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

COMPUTER VISION

Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868

Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129

COMPUTERIZED SIMULATION

Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741

Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129

COMPUTERS

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288

Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207

Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411

Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

CONCAVITY

Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

CONCENTRATORS

Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234

Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602

Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583

Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471

Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753

Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473

Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1-CU] c 35 N86-29174

CONCENTRIC CYLINDERS

Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

CONCENTRIC SPHERES

Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319

Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

CONCURRENT PROCESSING

Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

CONDENSATES

Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607

Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

CONDENSERS (LIQUEFIERS)

Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSING

Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953

CONDUCTING FLUIDS

Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084

Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

CONDUCTING POLYMERS

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

CONDUCTION ELECTRONS

Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

CONDUCTIVE HEAT TRANSFER

Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439

Compact pulsed laser having improved heat conduction
[NASA-CASE-NPO-13147-1] c 36 N77-25502

Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419

Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808

Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120

CONDUCTIVITY

Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

CONDUCTORS

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032

Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

CONES

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

CONFIGURATION MANAGEMENT

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019

CONFINEMENT

Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

CONICAL BODIES

Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859

Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127

Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

CONICAL FLOW

Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729

CONICAL SCANNING

Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

CONICAL SHELLS

Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785

Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580

Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

CONJUGATES

Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

CONNECTORS

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539

Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789

Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389

Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083

Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560

Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605

Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649

Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969

Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180

Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236

Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610

System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197

Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 31 N92-16161

Robot-friendly connector --- space truss structures
[NASA-CASE-MSC-21864-1] c 37 N92-23544

Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N92-29140

Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N92-29762
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028

CONSCIOUSNESS
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

CONSISTENCY
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

CONSOLES
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

CONSOLIDATION
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200

CONSTANTS
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

CONSTRAINTS
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559

CONSTRUCTION
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210
Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N92-34212

CONSTRUCTION MATERIALS
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

CONTACT POTENTIALS
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

CONTAINERLESS MELTS
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

CONTAINERS
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612

CONTAINMENT
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

CONTAMINANTS
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122

CONTAMINATION
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

CONTINUOUS RADIATION
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

CONTINUOUS WAVE LASERS
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Stark effect spectrophotometer for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Spectrophotometer stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943

CONTINUOUS WAVE RADAR
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

CONTINUUM FLOW
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

CONTOUR SENSORS
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

CONTOURS
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Contourgraph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

CONTROL
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395

Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

CONTROL BOARDS
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090

CONTROL DATA (COMPUTERS)
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721

CONTROL EQUIPMENT
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Synchronous orbit battery cyclizer
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140
User friendly joystick
[NASA-CASE-GSC-13187-1] c 33 N92-29153
Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387

CONTROL ROCKETS
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

CONTROL RODS
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

CONTROL SIMULATION

Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

CONTROL STABILITY

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

CONTROL STICKS

User friendly joystick
[NASA-CASE-GSC-13187-1] c 33 N92-29153

CONTROL SURFACES

Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

CONTROL SYSTEMS DESIGN

Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
Reconfigurable fuzzy cell
[NASA-CASE-MSC-21613-1] c 61 N92-10331
High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895
Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909
Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N92-31788
Hazardous materials emergency response mobile robot
[NASA-CASE-NPO-18690-1-CU] c 37 N92-34205

CONTROL THEORY
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

CONTROL UNITS (COMPUTERS)

Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

CONTROL VALVES

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563

CONTROLLED ATMOSPHERES

Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

CONTROLLERS
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379

CONVERGENT-DIVERGENT NOZZLES

Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186
Reconfigurable fuzzy cell
[NASA-CASE-MSC-21613-1] c 61 N92-10331
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
Controlling flexible robot arms using a high speed dynamics process
[NASA-CASE-NPO-18499-1-CU] c 37 N92-24042
Controlling under-actuated robot arms using a high speed dynamics process
[NASA-CASE-NPO-18498-1-CU] c 37 N92-24043
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N92-28750
Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154
Programmable hyperspectral image mapper with on-array processing
[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104

CONVECTION
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N94-12968
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

CONVECTIVE FLOW
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

CONVECTIVE HEAT TRANSFER
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

CONVERGENCE
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

CONVERGENT NOZZLES
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

CONVERGENT-DIVERGENT NOZZLES
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684

CONVERSION
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

CONVERTERS
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

CONVEYITY
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999
Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899

CONVEYORS
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

CONVOLUTION INTEGRALS
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

COOLANTS
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-2] c 34 N92-30024

COOLERS
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156

COOLING
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

COOLING SYSTEMS
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286

COORDINATES
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

COPOLYMERIZATION
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

COPOLYMERS
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792

COPPER
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Metal (2,4,4',4''-phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COPPER ALLOYS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
Method of forming low cost, formable High T(sub c) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529

COPPER CHLORIDES
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

COPPER COMPOUNDS
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

COPPER FLUORIDES
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

COPPER OXIDES
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

CORDAGE
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

CORE STORAGE
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

CORES
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128

- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
- New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
- CORK (MATERIALS)**
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- CORRECTION**
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
- Alignment positioning mechanism
[NASA-CASE-MS-C-21502-1] c 37 N91-21543
- CORRELATION**
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
- CORRELATION DETECTION**
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
- CORRELATORS**
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
- Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438
- CORROSION**
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- CORROSION PREVENTION**
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
- Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- CORROSION RESISTANCE**
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
- CORRUGATED PLATES**
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
- CORRUGATING**
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- COSINE SERIES**
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- COSMIC DUST**
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Cosmic dust analyzer
[NASA-CASE-MS-C-13802-2] c 35 N76-15431
- Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
- COST ANALYSIS**
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- COST EFFECTIVENESS**
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- Assured crew return vehicle
[NASA-CASE-MS-C-21536-1] c 18 N92-21999
- COST REDUCTION**
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
- COUCHES**
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
- Energy absorbing structure Patent Application
[NASA-CASE-MS-C-12279-1] c 15 N70-35679
- Articulated multiple couch assembly Patent
[NASA-CASE-MS-C-11253] c 05 N71-12343
- Collapsible Apollo couch
[NASA-CASE-MS-C-13140] c 05 N72-11085
- COULOMETERS**
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- COUNTERBALANCES**
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
- COUNTERS**
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
- Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
- COUNTING CIRCUITS**
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
- Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
- Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
- Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
- Digital cardiachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
- Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
- Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MS-C-14649-1] c 33 N76-16331
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- COUPLERS**
Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707
- High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
- Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N92-30097
- COUPLES**
Two fault tolerant toggle-hook release
[NASA-CASE-MS-C-21671-1] c 37 N91-32498
- COUPLING**
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
- Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- Magnetic drive coupling
[NASA-CASE-MS-C-21171-1] c 37 N88-23973
- Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
- COUPLING CIRCUITS**
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- Phase modulator Patent
[NASA-CASE-MS-C-13201-1] c 07 N71-28429
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
- COUPLINGS**
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
- Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
- Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
- Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
- Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903

- Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Reusable captive blind fastener
[NASA-CASE-MS-C-18742-1] c 37 N82-26673
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MS-C-18969-1] c 18 N84-22605
- Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MS-C-20319-1] c 37 N85-21649
- Non-backdrivable free wheeling coupling
[NASA-CASE-MS-C-20475-1] c 37 N87-17037
- Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- Docking system for spacecraft
[NASA-CASE-MS-C-21327-1] c 18 N90-11798
- Docking mechanism for spacecraft
[NASA-CASE-MS-C-21386-1] c 18 N90-20126
- Quick connect coupling
[NASA-CASE-MS-C-21539-1] c 37 N91-14610
- System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
- Two fault tolerant toggle-hook release
[NASA-CASE-MS-C-21671-1] c 37 N91-32498
- Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
- Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865
- Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120
- Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N92-29140

COVARIANCE

- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

COVERINGS

- Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- Hatch cover
[NASA-CASE-MS-C-21356-1] c 18 N90-19278

COWLINGS

- Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

CRACK OPENING DISPLACEMENT

- Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

CRACK PROPAGATION

- Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
- Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

CRACKING (FRACTURING)

- Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

CRACKS

- Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
- Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

CRANES

- Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N92-34212

CRASH LANDING

- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

CREEP RUPTURE STRENGTH

- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026

- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647

CREEP TESTS

- Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

CRITICAL EXPERIMENTS

- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372

CRITICAL TEMPERATURE

- Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264

CROSS CORRELATION

- Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925

CROSS FLOW

- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
- Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
- Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390

CROSS POLARIZATION

- Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

CROSSED FIELDS

- Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562

CROSSLINKING

- Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- Polypheylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747

- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198
- A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
- A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
- Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
- Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N92-33015

CROSSTALK

- Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926

CRUCIBLES

- Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483

CRUCIFORM WINGS

- Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154

CRUDE OIL

- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
- Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282

CRUSTAL FRACTURES

- System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

CRYOGENIC COOLING

- Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
- Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
- Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
- Three-stage sorption type cryogenic refrigeration system and method employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N92-17674
- Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156

CRYOGENIC EQUIPMENT

- Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
- Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
- Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
- Dual stage check valve
[NASA-CASE-MS-C-13587-1] c 15 N73-30459
- Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229

- Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
- Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
- Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
- Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
- Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
- Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
- CRYOGENIC FLUID STORAGE**
- Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
- Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
- Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
- Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
- Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
- Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
- Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
- Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
- Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
- Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
- CRYOGENIC FLUIDS**
- Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
- Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
- Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
- Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
- Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
- Geysing inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
- Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
- Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
- Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

CRYOGENIC GYROSCOPIES

- Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
- CRYOGENIC MAGNETS**
- Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
- CRYOGENIC ROCKET PROPELLANTS**
- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- CRYOGENIC STORAGE**
- Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
- Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
- CRYOGENIC TEMPERATURE**
- Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
- CRYOGENIC WIND TUNNELS**
- Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
- CRYOGENICS**
- Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
- Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
- Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151
- CRYOLITE**
- Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
- CRYOSTATS**
- Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
- Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
- CRYOTRAPPING**
- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- CRYSTAL DEFECTS**
- Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
- CRYSTAL FILTERS**
- Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
- Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891

CRYSTAL GROWTH

- Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
- Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
- Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
- Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
- Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
- Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
- Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
- High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
- Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
- MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
- Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
- Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966

- Crystal growth in a microgravity environment
 [NASA-CASE-MFS-28473-1] c 76 N91-26968
 Device for mechanically stabilizing web ribbon buttons during growth initiation
 [NASA-CASE-NPO-17074-2-CU] c 76 N92-21499
 Growth of III-V films by control of MBE growth front stoichiometry
 [NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
 Macromolecular crystal growing system
 [NASA-CASE-MFS-26088-1-CU] c 76 N92-25398

CRYSTAL LATTICES

- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
 [NASA-CASE-MFS-23315-1] c 76 N78-24950
 Crystal cleaving machine
 [NASA-CASE-GSC-12584-1] c 37 N82-32730
 MBE growth technology for high quality strained III-V layers
 [NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
 Growth of III-V films by control of MBE growth front stoichiometry
 [NASA-CASE-NPO-17724-1-CU] c 76 N92-22035

CRYSTAL OPTICS

- Optical crystal temperature gauge with fiber optic connections
 [NASA-CASE-MSC-18627-1] c 74 N82-30071

CRYSTAL OSCILLATORS

- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
 [NASA-CASE-NPO-10144] c 14 N71-17701
 Passive intrusion detection system
 [NASA-CASE-NPO-13804-1] c 33 N80-23559
 Automatic oscillator frequency control system
 [NASA-CASE-GSC-12804-1] c 33 N86-20668
 Real-time dynamic holographic image storage device
 [NASA-CASE-LAR-13989-1] c 35 N91-13694

CRYSTAL RECTIFIERS

- Turn on transient limiter Patent
 [NASA-CASE-GSC-10413] c 10 N71-26531

CRYSTAL STRUCTURE

- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
 [NASA-CASE-MFS-22926-1] c 24 N77-27187
 Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
 [NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

CRYSTALLINITY

- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
 [NASA-CASE-LAR-12099-1] c 27 N80-16158
 Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
 [NASA-CASE-NPO-15813-2] c 76 N87-15882
 Process for developing crystallinity in linear aromatic polyimides
 [NASA-CASE-LAR-13732-1] c 27 N87-25474
 Processing for maximizing the level of crystallinity in linear aromatic polyimides
 [NASA-CASE-LAR-14481-1] c 25 N92-16043

CRYSTALLIZATION

- Method of crystallization --- in gravity-free environments
 [NASA-CASE-MFS-23001-1] c 76 N77-32919
 Total immersion crystal growth
 [NASA-CASE-NPO-15800-2] c 76 N87-23286
 Novel polyimide compositions based on 4,4'-isophthaloyldiphthalic anhydride (IDPA)
 [NASA-CASE-LAR-14194-1] c 24 N90-15148
 Apparatus for mixing solutions in low gravity environments
 [NASA-CASE-MFS-26047-1] c 29 N90-21209
 Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
 [NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

CRYSTALS

- Brushless direct current tachometer Patent
 [NASA-CASE-MFS-20385] c 09 N71-24904
 Method and apparatus for slicing crystals
 [NASA-CASE-GSC-12291-1] c 76 N80-18951
 Crystal cleaving machine
 [NASA-CASE-GSC-12584-1] c 37 N82-32730
 Workpiece positioning vise
 [NASA-CASE-GSC-12762-1] c 37 N84-28083
 Dynamic range compression/expansion of light beams by photorefractive crystals
 [NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
 Method of preparing radially homogeneous mercury cadmium telluride crystals
 [NASA-CASE-MFS-25786-2] c 76 N90-20896
 Reflection oscillators employing series resonant crystals
 [NASA-CASE-GSC-13173-1] c 33 N90-23635
 Hanging drop crystal growth apparatus
 [NASA-CASE-MFS-26061-1] c 76 N91-16815

- Method and apparatus for second-rank tensor generation
 [NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

- Crystal growth in a microgravity environment
 [NASA-CASE-MFS-28473-1] c 76 N91-26968
 Macromolecular crystal growing system
 [NASA-CASE-MFS-26088-1-CU] c 76 N92-25398

CUBIC LATTICES

- Stabilized lanthanum sulphur compounds --- thermoelectric materials
 [NASA-CASE-NPO-16135-1] c 25 N83-24572

CUES

- Helmet weight simulator
 [NASA-CASE-LAR-12320-1] c 54 N81-27806

CUFFS

- Logic-controlled occlusive cuff system
 [NASA-CASE-MSC-14836-1] c 52 N82-11770
 Prosthetic occlusive device for an internal passageway
 [NASA-CASE-MFS-25740-1] c 52 N84-11744
 Bar-holding prosthetic limb
 [NASA-CASE-MSC-28481-1] c 54 N92-24056

CULTURE TECHNIQUES

- Variable angle tube holder
 [NASA-CASE-LAR-10507-1] c 11 N72-25284
 Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
 [NASA-CASE-LAR-11074-1] c 51 N75-13502
 Automatic microbial transfer device
 [NASA-CASE-LAR-11354-1] c 35 N75-27330
 Electrochemical detection device --- for use in microbiology
 [NASA-CASE-LAR-11922-1] c 25 N79-24073
 Indirect microbial detection
 [NASA-CASE-LAR-12520-1] c 51 N81-28698
 Enhancement of in vitro guayule propagation
 [NASA-CASE-NPO-15213-1] c 51 N83-17045
 Method for detecting coliform organisms
 [NASA-CASE-ARC-11322-1] c 51 N83-28849
 Production of butanol by fermentation in the presence of cocultures of clostridium
 [NASA-CASE-NPO-16203-1] c 23 N85-35227
 Bio-reactor chamber
 [NASA-CASE-MSC-20929-1] c 51 N91-14703
 Rotating bio-reactor cell culture apparatus
 [NASA-CASE-MSC-21293-1] c 51 N91-21700
 Spiral vane bioreactor
 [NASA-CASE-MSC-21361-1] c 51 N91-21701
 Horizontally rotated cell culture system with a coaxial tubular oxygenator
 [NASA-CASE-MSC-21294-1] c 51 N91-30667
 Hollow fiber clinostat for simulating microgravity in cell culture
 [NASA-CASE-MFS-28370-1] c 35 N92-31790
 Three-dimensional co-culture process
 [NASA-CASE-MSC-21560-1] c 51 N92-34229
 Three-dimensional cell to tissue assembly process
 [NASA-CASE-MSC-21559-1] c 51 N92-34231
 High aspect reactor vessel and method of use
 [NASA-CASE-MSC-21662-1] c 51 N92-34232

CURIE TEMPERATURE

- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
 [NASA-CASE-NPO-11336-1] c 76 N79-16678

CURING

- Reaction cured glass and glass coatings
 [NASA-CASE-ARC-11051-1] c 27 N78-32260
 Ambient cure polyimide foams --- thermal resistant foams
 [NASA-CASE-ARC-11170-1] c 27 N79-11215
 Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
 [NASA-CASE-LEW-13226-1] c 27 N81-17260
 Method of neutralizing the corrosive surface of amine-cured epoxy resins
 [NASA-CASE-GSC-12686-1] c 27 N83-34039
 Fluoroether modified epoxy composites
 [NASA-CASE-ARC-11418-1] c 24 N84-11213
 Method and technique for installing light-weight, fragile, high-temperature fiber insulation
 [NASA-CASE-MSC-16934-3] c 24 N84-16262
 Chemical approach for controlling nadimide cure temperature and rate
 [NASA-CASE-LEW-13770-1] c 27 N84-27885
 Chemical approach for controlling nadimide cure temperature and rate with maleimide
 [NASA-CASE-LEW-13770-3] c 27 N85-21350
 Chemical approach for controlling nadimide cure temperature and rate with maleimide
 [NASA-CASE-LEW-13770-4] c 27 N85-21351
 Chemical control of nadimide cure temperature and rate
 [NASA-CASE-LEW-13770-2] c 25 N85-28982

- Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
 [NASA-CASE-ARC-11424-1] c 27 N85-34281
 Toughening reinforced epoxy composites with brominated polymeric additives
 [NASA-CASE-ARC-11427-1] c 24 N86-19380
 High performance mixed bisimide resins and composites based thereon
 [NASA-CASE-ARC-11538-1SB] c 24 N86-21590
 Ethynyl and substituted ethynyl-terminated polysulfones
 [NASA-CASE-LAR-12931-2] c 27 N86-21675
 Process for curing bismaleimide resins
 [NASA-CASE-ARC-11429-4CU] c 27 N87-15304
 Cellular thermosetting fluoropolymers and process for making them
 [NASA-CASE-GSC-13008-1] c 27 N88-23894
 Method of controlling a resin curing process --- for fiber reinforced composites
 [NASA-CASE-MSC-21169-1] c 27 N89-29539
 Noninvasive method and apparatus for monitoring the cure of polymeric materials
 [NASA-CASE-LAR-13465-1] c 27 N90-23544
 New core design for use with precision composite reflectors
 [NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
 Process for bonding elastomers to metal
 [NASA-CASE-LAR-13645-1] c 27 N91-28424
 Tough, high performance, addition-type thermoplastic polymers
 [NASA-CASE-LAR-14346-1] c 27 N92-22044
 Flush mounting of thin film sensors
 [NASA-CASE-LAR-14446-1] c 31 N92-33020
- CURRENT AMPLIFIERS**
 Multi-channel temperature measurement amplification system --- solar heating systems
 [NASA-CASE-MFS-23775-1] c 44 N82-16474
 Tuned analog network
 [NASA-CASE-GSC-12650-1] c 33 N84-14421
 A dc to dc converter
 [NASA-CASE-MFS-25430-1] c 33 N84-16453
 Differential current source
 [NASA-CASE-GSC-13280-1] c 33 N91-27479
- CURRENT DENSITY**
 Solid state switch
 [NASA-CASE-XNP-09228] c 09 N69-27500
 Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
 [NASA-CASE-LEW-10920-1] c 17 N73-24569
 Stable superconducting magnet --- high current levels below critical temperature
 [NASA-CASE-XMF-05373-1] c 33 N79-21264
 Catalyst surfaces for the chromous/chromic redox couple
 [NASA-CASE-LEW-13148-2] c 44 N81-29524
- CURRENT DISTRIBUTION**
 Connector - Electrical
 [NASA-CASE-XLA-01288] c 09 N69-21470
 Electrostatic ion rocket engine Patent
 [NASA-CASE-XLE-02066] c 28 N71-15661
 Reversible current control apparatus Patent
 [NASA-CASE-XLA-09371] c 10 N71-18724
 Polarity sensitive circuit Patent
 [NASA-CASE-XNP-00952] c 10 N71-23271
 Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
 [NASA-CASE-XER-11046-2] c 33 N74-22864
- CURRENT REGULATORS**
 Apparatus for ballasting high frequency transistors
 [NASA-CASE-XGS-05003] c 09 N69-24318
 Baseline stabilization system for ionization detector Patent
 [NASA-CASE-XNP-03128] c 10 N70-41991
 Magnetic core current steering commutator Patent
 [NASA-CASE-NPO-10201] c 08 N71-18694
 Increasing efficiency of switching type regulator circuits Patent
 [NASA-CASE-XMS-09352] c 09 N71-23316
 Saturation current protection apparatus for saturable core transformers Patent
 [NASA-CASE-ERC-10075] c 09 N71-24800
 Drive circuit for minimizing power consumption in inductive load Patent
 [NASA-CASE-NPO-10716] c 09 N71-24892
 Turn on transient limiter Patent
 [NASA-CASE-GSC-10413] c 10 N71-26531
 Current regulating voltage divider
 [NASA-CASE-MFS-20935] c 09 N71-34212
 Ripple indicator
 [NASA-CASE-KSC-10162] c 09 N72-11225
 Inrush current limiter
 [NASA-CASE-GSC-11789-1] c 33 N77-14333
 Circuit for automatic load sharing in parallel converter modules
 [NASA-CASE-NPO-14056-1] c 33 N79-24257

Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479

CURVATURE

Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723

Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488

Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

CURVE FITTING

Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578

CURVED PANELS

Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273

Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836

Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

CUSHIONS

Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

CUTTERS

Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798

Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485

Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703

Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

CUTTING

Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478

Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655

Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508

CYANATES

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

CYCLES

Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469

Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167

CYCLIC ACCELERATORS

Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458

CYCLIC COMPOUNDS

Carboranyl cyclophosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

Maleimido substituted aromatic cyclophosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

Aminophenoxycyclophosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

Aromatic cyclophosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

CYCLIC HYDROCARBONS

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

Synthesis of 2,4,8,10-tetroxaspiro[5,5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

CYCLIC LOADS

Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877

Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476

Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

CYCLOTRON RADIATION

Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

CYCLOTRON RESONANCE

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

CYCLOTRON RESONANCE DEVICES

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

CYLINDRICAL ANTENNAS

Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

CYLINDRICAL BODIES

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009

Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590

CYLINDRICAL CHAMBERS

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

CYLINDRICAL SHELLS

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

CYSTS

Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751

CYTOLOGY

Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701

CZOCHRALSKI METHOD

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

D

DAMAGE

Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

DAMAGE ASSESSMENT

Smart accelerometer --- vibration damage detection
[NASA-CASE-MSC-21951-1] c 35 N92-23545

DAMPERS (VALVES)

Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

DAMPING

Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997

Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694

Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

Check valve with poppet damping mechanism
[NASA-CASE-MSC-21903-1] c 37 N92-30101

DATA ACQUISITION

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125

Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090

Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386

DATA COLLECTION PLATFORMS

Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007

DATA COMPRESSION

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154

Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788

Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598

Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-2] c 82 N92-23550

DATA CONVERTERS

Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

Analog Signal to Discrete Time Interval Converter (ASDTIC)
 [NASA-CASE-ERC-10048] c 09 N72-25251
 High speed direct binary to binary coded decimal converter and scaler
 [NASA-CASE-KSC-10595] c 08 N73-12176
 Image data rate converter having a drum with a fixed head and a rotatable head
 [NASA-CASE-NPO-11659-1] c 35 N74-11283
 Electronic analog divider
 [NASA-CASE-LEW-11881-1] c 33 N77-17354
 Digital demodulator
 [NASA-CASE-LAR-12659-1] c 33 N82-26570

DATA CORRELATION

Instrument for determining coincidence and elapse time between independent sources of random sequential events
 [NASA-CASE-LAR-12531-1] c 35 N83-29651
 Auto covariance computer
 [NASA-CASE-LAR-12968-1] c 60 N86-21154

DATA LINKS

Multichannel telemetry system
 [NASA-CASE-NPO-11572] c 07 N73-16121
 Automated attendance accounting system
 [NASA-CASE-NPO-11456] c 08 N73-26176
 Multi-computer multiple data path hardware exchange system
 [NASA-CASE-NPO-13422-1] c 60 N76-14818
 Apparatus for simulating optical transmission links
 [NASA-CASE-GSC-11877-1] c 74 N76-18913
 Distributed computing system with dual independent communications paths between computers and employing split tokens
 [NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
 A universal computer control system for motors
 [NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

DATA MANAGEMENT

Selective data segment monitoring system --- using shift registers
 [NASA-CASE-ARC-10899-1] c 60 N77-19760

DATA PROCESSING

Energy management system for glider type vehicle Patent
 [NASA-CASE-XFR-00756] c 02 N71-13421
 Minimal logic block encoder Patent
 [NASA-CASE-NPO-10595] c 10 N71-25917
 Data transfer system Patent
 [NASA-CASE-NPO-12107] c 08 N71-27255
 Transient augmentation circuit for pulse amplifiers Patent
 [NASA-CASE-XNP-01068] c 10 N71-28739
 Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
 [NASA-CASE-XNP-03623] c 09 N73-28084
 Image data rate converter having a drum with a fixed head and a rotatable head
 [NASA-CASE-NPO-11659-1] c 35 N74-11283
 Charge-coupled device data processor for an airborne imaging radar system
 [NASA-CASE-NPO-13587-1] c 32 N77-32342
 Interactive color display for multispectral imagery using correlation clustering
 [NASA-CASE-MSC-16253-1] c 32 N79-20297
 High-speed multiplexing of keyboard data inputs
 [NASA-CASE-NPO-14554-1] c 60 N81-27814
 Real-time garbage collection for list processing
 [NASA-CASE-MSC-20964-1] c 60 N87-14863
 Processing circuit with asymmetry corrector and convolutional encoder for digital data
 [NASA-CASE-MSC-20187-1] c 33 N87-25531
 Laser Doppler velocimeter multiplexer interface for simultaneous measured events
 [NASA-CASE-ARC-11536-1] c 33 N89-14384
 Real-time simulation clock
 [NASA-CASE-LAR-14056-1] c 35 N90-23713
 Digital data registration and differencing compression system
 [NASA-CASE-SSC-00010-2] c 82 N92-23550

DATA PROCESSING EQUIPMENT
 Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
 [NASA-CASE-XGS-04767] c 08 N71-12494
 Demodulation system Patent
 [NASA-CASE-XAC-04030] c 10 N71-19472
 Rate augmented digital to analog converter Patent
 [NASA-CASE-XLA-07828] c 08 N71-27057
 Variable digital processor including a register for shifting and rotating bits in either direction Patent
 [NASA-CASE-GSC-10186] c 08 N71-33110
 Flexible computer accessed telemetry
 [NASA-CASE-NPO-11358] c 07 N72-25172
 Versatile arithmetic unit for high speed sequential decoder
 [NASA-CASE-NPO-11371] c 08 N73-12177

Data processor with conditionally supplied clock signals
 [NASA-CASE-GSC-10975-1] c 08 N73-13187
 Automated attendance accounting system
 [NASA-CASE-NPO-11456] c 08 N73-26176
 Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
 [NASA-CASE-NPO-13545-1] c 32 N77-12240
 High-speed multiplexing of keyboard data inputs
 [NASA-CASE-NPO-14554-1] c 60 N81-27814
 Digital interface for bi-directional communication between a computer and a peripheral device
 [NASA-CASE-MSC-20258-1] c 60 N84-28492
 Neighborhood comparison operator
 [NASA-CASE-NPO-16464-1-CU] c 60 N86-24224
 Real time pipelined system for forming the sum of products in the processing of video data
 [NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

DATA RECORDERS

Data compressor Patent
 [NASA-CASE-XNP-04067] c 08 N71-22707
 Recorder using selective noise filter
 [NASA-CASE-ERC-10112] c 07 N72-21119
 Recorder/processor apparatus --- for optical data processing
 [NASA-CASE-GSC-11553-1] c 35 N74-15831

DATA RECORDING

System for recording and reproducing pulse code modulated data Patent
 [NASA-CASE-XGS-01021] c 08 N71-21042
 Data compressor Patent
 [NASA-CASE-XNP-04067] c 08 N71-22707
 Incremental tape recorder and data rate converter Patent
 [NASA-CASE-XNP-02778] c 08 N71-22710
 Transient video signal recording with expanded playback Patent
 [NASA-CASE-ARC-10003-1] c 09 N71-25866
 On-film optical recording of camera lens settings
 [NASA-CASE-MSC-12363-1] c 14 N73-26431
 Image data rate converter having a drum with a fixed head and a rotatable head
 [NASA-CASE-NPO-11659-1] c 35 N74-11283
 Holography utilizing surface plasmon resonances
 [NASA-CASE-MFS-22040-1] c 35 N74-26946

DATA REDUCTION

Data compression system
 [NASA-CASE-XNP-09785] c 08 N69-21928
 Method and system for respiration analysis Patent
 [NASA-CASE-XFR-08403] c 05 N71-11202
 Data compression system with a minimum time delay unit Patent
 [NASA-CASE-XNP-08832] c 08 N71-12506
 Data compression processor Patent
 [NASA-CASE-NPO-10068] c 08 N71-19288
 Wide range data compression system Patent
 [NASA-CASE-XGS-02612] c 08 N71-19435
 Data compressor Patent
 [NASA-CASE-NPO-04067] c 08 N71-22707
 Method and apparatus for data compression by a decreasing slope threshold test
 [NASA-CASE-NPO-10769] c 08 N72-11171
 Data compression system
 [NASA-CASE-NPO-11243] c 07 N72-20154
 Digital slope threshold data compressor
 [NASA-CASE-NPO-11630] c 08 N72-33172
 Data volume reduction for imaging radar polarimetry
 [NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

DATA RETRIEVAL

Magnetic matrix memory system Patent
 [NASA-CASE-XMF-05835] c 08 N71-12504
 Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
 [NASA-CASE-NPO-13321-1] c 32 N75-26195

DATA SAMPLING

Reduced bandwidth video communication system utilizing sampling techniques Patent
 [NASA-CASE-XNP-02791] c 07 N71-23026
 Signal processing apparatus for multiplex transmission Patent
 [NASA-CASE-NPO-10388] c 07 N71-24622
 Television signal processing system Patent
 [NASA-CASE-NPO-10140] c 07 N71-24742
 Method and apparatus for data compression by a decreasing slope threshold test
 [NASA-CASE-NPO-10769] c 08 N72-11171
 Sampling video compression system
 [NASA-CASE-ARC-10984-1] c 32 N77-24328
 CCD correlated quadruple sampling processor
 [NASA-CASE-NPO-14426-1] c 33 N81-27396

DATA SMOOTHING

Variable time constant smoothing circuit Patent
 [NASA-CASE-XGS-01983] c 10 N70-41964
 Smoothing filter for digital to analog conversion
 [NASA-CASE-FRC-11025-1] c 33 N82-24417

DATA STORAGE

Data handling system based on source significance, storage availability and data received from the source Patent Application
 [NASA-CASE-XNP-04162-1] c 08 N70-34675
 Magnetic matrix memory system Patent
 [NASA-CASE-XMF-05835] c 08 N71-12504
 Tape guidance system and apparatus for the provision thereof Patent
 [NASA-CASE-XNP-09453] c 08 N71-19420
 Event recorder Patent
 [NASA-CASE-XLA-01832] c 14 N71-21006
 System for recording and reproducing pulse code modulated data Patent
 [NASA-CASE-XGS-01021] c 08 N71-21042
 Incremental tape recorder and data rate converter Patent
 [NASA-CASE-XNP-02778] c 08 N71-22710
 Multiple hologram recording and readout system Patent
 [NASA-CASE-ERC-10151] c 16 N71-29131
 Dual purpose momentum wheels for spacecraft with magnetic recording
 [NASA-CASE-NPO-11481] c 21 N73-13644
 Data storage, image tube type
 [NASA-CASE-MSC-14053-1] c 60 N74-12888
 Lightning current waveform measuring system
 [NASA-CASE-KSC-11018-1] c 33 N79-10337
 Rapidly quantifying the relative distention of a human bladder
 [NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
 Analog hardware for learning neural networks
 [NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
 Disk memory device
 [NASA-CASE-GSC-13196-1] c 60 N92-29132
 Nonvolatile programmable neural network synaptic array
 [NASA-CASE-NPO-18578-1-CU] c 33 N92-30086
 Storage control system
 [NASA-CASE-LAR-14651-1] c 82 N92-30386

DATA STRUCTURES
 Real-time garbage collection for list processing
 [NASA-CASE-MSC-20964-1] c 60 N87-14863

DATA SYSTEMS
 Data handling system based on source significance, storage availability and data received from the source Patent Application
 [NASA-CASE-XNP-04162-1] c 08 N70-34675
 Rate augmented digital to analog converter Patent
 [NASA-CASE-XLA-07828] c 08 N71-27057
 Method and apparatus for decoding compatible convolutional codes
 [NASA-CASE-MSC-14070-1] c 32 N74-32598
 Shaft mount for data coupler system
 [NASA-CASE-LAR-13805-1] c 37 N92-30097

DATA TRANSFER (COMPUTERS)
 Data transfer system Patent
 [NASA-CASE-NPO-12107] c 08 N71-27255
 Printer port interface
 [NASA-CASE-LAR-13950-1] c 60 N92-30541

DATA TRANSMISSION
 Telemetry word forming unit
 [NASA-CASE-XNP-09225] c 09 N69-24333
 Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
 [NASA-CASE-XNP-00911] c 08 N70-41961
 Data compression system with a minimum time delay unit Patent
 [NASA-CASE-XNP-08832] c 08 N71-12506
 Data compression processor Patent
 [NASA-CASE-NPO-10068] c 08 N71-19288
 Wide range data compression system Patent
 [NASA-CASE-XGS-02612] c 08 N71-19435
 Phase quadrature-plural channel data transmission system Patent
 [NASA-CASE-XAC-06302] c 08 N71-19763
 Reduced bandwidth video communication system utilizing sampling techniques Patent
 [NASA-CASE-XNP-02791] c 07 N71-23026
 Frequency shift keying apparatus Patent
 [NASA-CASE-XGS-01537] c 07 N71-23405
 Decoder system Patent
 [NASA-CASE-NPO-10118] c 07 N71-24741
 Data compression system
 [NASA-CASE-NPO-11243] c 07 N72-20154
 Multichannel telemetry system
 [NASA-CASE-NPO-11572] c 07 N73-16121
 Automated attendance accounting system
 [NASA-CASE-NPO-11456] c 08 N73-26176
 System for generating timing and control signals
 [NASA-CASE-NPO-13125-1] c 33 N75-19519
 Sampling video compression system
 [NASA-CASE-ARC-10984-1] c 32 N77-24328

- Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
- Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
- System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
- Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
- VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
- Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791
- Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N92-30097
- Printer port interface
[NASA-CASE-LAR-13950-1] c 60 N92-30541
- DAWSONITE**
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- DEACTIVATION**
Magnetostriuctive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331
- DEBRIS**
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114
- DECAY RATES**
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
- DECELERATION**
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
- Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
- Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
- Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- DECIMALS**
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
- DECISION MAKING**
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
- Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
- A space-time neural network for processing both spacial and temporal data
[NASA-CASE-MSC-21874-1] c 63 N92-30314
- DECODERS**
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
- Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
- Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
- VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N92-33011
- DECODING**
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
- Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
- Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
- Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- DECOMMUTATORS**
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
- DECOMPOSITION**
Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208
- DECONTAMINATION**
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
- Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- DECOUPLING**
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
- DEEP SPACE NETWORK**
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
- DEFECTS**
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
- Method and apparatus for thermographically and quantitatively analyzing a structure for disbands and/or inclusions
[NASA-CASE-LAR-14559-1] c 38 N92-29829
- DEFLECTION**
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
- DEFLECTORS**
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
- DEFOCUSING**
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- DEFORMATION**
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
- Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
- DEGASSING**
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
- DEGREES OF FREEDOM**
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
- Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
- Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
- Configuration control of seven-degree-of-freedom arms
[NASA-CASE-NPO-18607-1-CU] c 37 N92-23553
- User friendly joystick
[NASA-CASE-GSC-13187-1] c 33 N92-29153
- DEHUMIDIFICATION**
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
- DEHYDRATED FOOD**
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096
- DEHYDRATION**
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- DEICERS**
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
- DEIONIZATION**
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
- DELAMINATION**
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
- A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
- DELAY CIRCUITS**
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
- Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
- Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
- Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607
- DELAY LINES**
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
- DELTA MODULATION**
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885
- DELTA WINGS**
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
- A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
- Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729
- DEMAGNETIZATION**
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
- DEMODULATION**
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
- Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
- Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
- Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
- DEMODULATORS**
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
- Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
- Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
- Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Unbalanced quadruphase demodulator
[NASA-CASE-MS-C-14840-1] c 32 N77-24331
- Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
- Self-calibrating threshold detector
[NASA-CASE-MS-C-16370-1] c 35 N81-19427
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
- Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

DENDRITIC CRYSTALS

- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

DENSIFICATION

- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-C-18737-1] c 24 N83-13171

DENSITOMETERS

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

DENSITY (MASS/VOLUME)

- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

DENSITY DISTRIBUTION

- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

DENSITY MEASUREMENT

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- Determining particle density using known material Hugoniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
- Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
- Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609

DENTISTRY

- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

DEOXIDIZING

- Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

DEOXYGENATION

- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138

DEPLOYMENT

- Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
- Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791

- Payload deployment method and system
[NASA-CASE-MS-C-21330-1] c 16 N88-24660
- Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
- Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MS-C-21562-1] c 16 N92-16007
- Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N92-24057

DEPOSITION

- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
- Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
- Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N85-33826
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926
- A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389

DEPOSITS

- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

DEPTH

- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
- Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

DEPTH MEASUREMENT

- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
- Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
- Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
- Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723

DESCENT

- Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

DESIGN ANALYSIS

- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
- Snap-in compressible biomedical electrode
[NASA-CASE-MS-C-14623-1] c 52 N77-28717
- Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830

DESORPTION

- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203

DESTRUCTIVE TESTS

- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
- Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

DESULFURIZING

- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073

DETECTION

- Heated element fluid flow sensor Patent
[NASA-CASE-MS-C-12084-1] c 12 N71-17569
- Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
- Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71-NPO-15494-2] c 35 N85-34373
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- Spillage detector for liquid chromatography systems
[NASA-CASE-MS-C-20206-1] c 25 N86-27431
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
- Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
- Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
- Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661
- Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
- Dual diaphragm tank with telltale drain
[NASA-CASE-MS-C-21703-1] c 31 N91-25305
- Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MS-C-21961-1] c 35 N92-29952

DETECTORS

- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
- Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
- Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
- Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
- Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
- Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
- Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

DETERGENTS

- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MS-C-13530-2] c 23 N75-14834
- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MS-C-20857-1] c 37 N87-17035

DETONATION

- Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- Improving the performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N91-28444
- Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162

DETONATION WAVES

- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

DETONATORS

- Improving the performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N91-28444

DEUTERIUM

- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

DEW POINT

- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

DIAGNOSIS

- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
- Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N92-28755

DIAGRAMS

- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

DIALYSIS

- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

DIAMAGNETISM

- Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

DIAMETERS

- Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

DIAMINES

- Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
- Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
- Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545

- Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
- N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
- Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425
- Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
- A process for preparing 1,3-diamino-5-pentafluorosulfanybenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
- Diphenylmethane-containing dianhydride and polyimides prepared therefrom
[NASA-CASE-LAR-14487-1] c 27 N92-11200
- A process for preparing an assembly of an article and a polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882
- Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053
- Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N92-33008

DIAMONDS

- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
- Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

DIAPHRAGMS (MECHANICS)

- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
- Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
- Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
- Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
- Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305
- Bladder operated robotic joint
[NASA-CASE-MFS-28682-1] c 27 N92-29831

DIATOMIC GASES

- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

DICHROISM

- Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
- Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416

DICKE RADIOMETERS

- Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

DIDYMIUM

- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

DIELECTRIC PROPERTIES

- Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
- Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
- Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

DIELECTRICS

- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
- Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
- Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
- Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
- Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
- Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066

DIELS-ALDER REACTIONS

- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
- Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
- Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

DIENES

- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

DIES

- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
- Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

DIESEL ENGINES

- Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
- Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

DIESEL FUELS

- Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073

DIETS

- Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

DIFFERENCE EQUATIONS

- Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976
- DIFFERENCES**
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- DIFFERENTIAL AMPLIFIERS**
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438
- DIFFERENTIAL INTERFEROMETRY**
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- DIFFERENTIAL PRESSURE**
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- DIFFERENTIAL PULSE CODE MODULATION**
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
- DIFFERENTIATORS**
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
- DIFFRACTION**
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
- DIFFRACTION PATTERNS**
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922
Dynamic aperture fringe discriminator
[NASA-CASE-NPO-18478-1-CU] c 74 N92-30084
- DIFFRACTOMETERS**
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
- DIFFUSE RADIATION**
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- DIFFUSERS**
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- DIFFUSION**
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
- DIFFUSION LENGTH**
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

DIFFUSION PUMPS

- Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
- DIFFUSION WELDING**
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- DIFFUSIVITY**
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
- DIGITAL COMMAND SYSTEMS**
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
- DIGITAL COMPUTERS**
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- DIGITAL DATA**
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

- Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-2] c 82 N92-23550
Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386
- DIGITAL ELECTRONICS**
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
- DIGITAL FILTERS**
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712
A space-time neural network for processing both spatial and temporal data
[NASA-CASE-MSC-21874-1] c 63 N92-30314
- DIGITAL INTEGRATORS**
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
- DIGITAL RADAR SYSTEMS**
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- DIGITAL SPACECRAFT TELEVISION**
Digital television camera control system Patent
[NASA-CASE-NPO-01472] c 14 N70-41807
- DIGITAL SYSTEMS**
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267

Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357

Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264

Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076

Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550

Reconfigurable fuzzy cell
[NASA-CASE-MSC-21613-1] c 61 N92-10331

DIGITAL TECHNIQUES

Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692

Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751

Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088

Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896

Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217

Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

Nanosequence digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310

Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712

DIGITAL TO ANALOG CONVERTERS

Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057

Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081

Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

DIGITAL TRANSDUCERS

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081

Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

DIISOCYANATES

Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099

Polyurethanes from fluoroalkyl propylene glycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100

Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

DILUTION

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

DIMENSIONAL MEASUREMENT

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

DIMENSIONAL STABILITY

A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121

DIMENSIONS

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

DIODES

Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796

Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354

Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341

Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

DIPHENYL COMPOUNDS

Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841

Amine terminated bispartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726

Aminophenoxycyclotriphenylazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

DIPOLE ANTENNAS

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235

Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

DIPPING

Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

DIRECT CURRENT

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255

A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418

Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693

Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188

Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239

Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950

Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092

A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035

Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203

A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253

Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476

Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988

Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851

Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386

Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338

Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133

Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907

DIRECT LIFT CONTROLS

Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106

DIRECT POWER GENERATORS

Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134

Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610

Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239

Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893

Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864

Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

DIRECTIONAL ANTENNAS

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854

Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696

Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

DIRECTIONAL CONTROL

Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162

- Omni-directional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- DIRECTIONAL SOLIDIFICATION (CRYSTALS)**
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
- DIRECTIONAL STABILITY**
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
- DIRECTIVITY**
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- DISABILITIES**
Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714
- DISCONNECT DEVICES**
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N92-29762
- DISCONTINUITY**
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
- DISCRIMINATORS**
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Dynamic aperture fringe discriminator
[NASA-CASE-NPO-18478-1-CU] c 74 N92-30084
- DISILICIDES**
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
- DISKS**
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609
- DISPENSERS**
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
- DISPERSING**
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- DISPERSIONS**
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
- DISPLACEMENT**
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727
Helix translation device --- shim for precision displacements
[NASA-CASE-GSC-13141-1] c 37 N92-23548
Polyimidoazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N92-28751
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141
- DISPLACEMENT MEASUREMENT**
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
- DISPLAY DEVICES**
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
- Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373
Aircraft liftemeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Large TV display system
[NASA-CASE-NPO-16932-1-CU] c 33 N87-15413
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952
- DISPOSAL**
Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612

DISSIPATION

- Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

DISSOCIATION

- Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Converting a CO₂ atmosphere to a high-purity O₂ supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098

DISSOLVING

- Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458

DISANCE

- Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057

DISTANCE MEASURING EQUIPMENT

- Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723

DISTILLATION EQUIPMENT

- Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

DISTRIBUTED AMPLIFIERS

- Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

DISTRIBUTED FEEDBACK LASERS

- Multiperiod-grating surface-emitting lasers
[NASA-CASE-NPO-17763-1-CU] c 36 N92-17862

DISTRIBUTED PROCESSING

- Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
A space-time neural network for processing both spatial and temporal data
[NASA-CASE-MSC-21874-1] c 63 N92-30314

DISTRIBUTION (PROPERTY)

- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

DISTRIBUTORS

- High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

DIVERGENT NOZZLES

- Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

DIVERTERS

- Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

DIVIDERS

- A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

DOCUMENT STORAGE

- File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908

DOMES (STRUCTURAL FORMS)

- Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

DOORS

- Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

DOPED CRYSTALS

- Sub-Kelvin resistance thermometer
[NASA-CASE-GSC-13406-1] c 35 N92-33614

DOPEES

- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

DOPPLER EFFECT

- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557

DOPPLER RADAR

- Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

DOSIMETERS

- Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

DOWNLINKING

- VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

DRAG CHUTES

- Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139

DRAG MEASUREMENT

- Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

DRAG REDUCTION

- Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

- A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156
Method of reducing drag in aerodynamic systems
[NASA-CASE-LEW-14791-1] c 02 N92-34243

DRAINAGE

- Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

DRIFT (INSTRUMENTATION)

- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-LAR-00183] c 14 N70-40239
Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

DRILL BITS

- Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N92-23378
Retractable tool bit having slider type catch mechanism
[NASA-CASE-GSC-13358-1] c 37 N92-24058

DRILLING

- Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723

DRILLS

- Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321

DRIVES

- Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

DROP TOWERS

- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

DROPS (LIQUIDS)

- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

DRUGS

- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

DRY HEAT

- Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

DRYING

- Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

DRYING APPARATUS

- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080

DUCTED FANS

- Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- DUCTILITY**
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- DUCTS**
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
- DURABILITY**
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725
- DUST COLLECTORS**
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- DYE LASERS**
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- DYES**
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588
- DYNAMIC CHARACTERISTICS**
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- DYNAMIC CONTROL**
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860
- DYNAMIC LOADS**
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
- DYNAMIC MODELS**
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
- DYNAMIC MODULUS OF ELASTICITY**
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- DYNAMIC PRESSURE**
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
- DYNAMIC RESPONSE**
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- DYNAMIC STRUCTURAL ANALYSIS**
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29552
- DYNAMIC TESTS**
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
- DYNAMICAL SYSTEMS**
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- DYNAMOMETERS**
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

E

- EAR**
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
- EARPHONES**
Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N89-29953
- EARTH ATMOSPHERE**
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- EARTH CRUST**
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
- EARTH IONOSPHERE**
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
- EARTH ORBITAL ENVIRONMENTS**
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151
- EARTH ORBITS**
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999
- ECCENTRICITY**
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133
- ECCENTRICS**
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- ECHELLE GRATINGS**
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
- ECHO SOUNDING**
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
- ECHOES**
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- EDDY CURRENTS**
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154
Method and apparatus for thermographically and quantitatively analyzing a structure for disbands and/or inclusions
[NASA-CASE-LAR-14559-1] c 38 N92-29829
- EDGES**
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
- EDITING**
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
- EDUCATION**
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
- EFFICIENCY**
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
- EFFLUENTS**
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
- EGRESS**
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142
- EJECTION**
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- EJECTION SEATS**
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
- EJECTORS**
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- ELASTIC BODIES**
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- ELASTIC DEFORMATION**
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
- ELASTIC MEDIA**
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
- ELASTIC PROPERTIES**
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- ELASTIC SHEETS**
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

ELASTOMERS

Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648

Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489

Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717

Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006

Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864

Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575

Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524

Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262

Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514

Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515

Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262

Bifunctional monomers having terminal oxime and cyano or amide groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256

Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238

Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338

Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340

Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240

Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542

Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424

Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N92-28754

Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14679-2] c 32 N92-31150

ELBOW (ANATOMY)

Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619

ELECTRIC ARCS

Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540

Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913

Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816

Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987

High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493

Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980

ELECTRIC AUTOMOBILES

Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

ELECTRIC BATTERIES

Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438

Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719

Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579

Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020

Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693

Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519

Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601

Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345

In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257

State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537

Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478

Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753

ELECTRIC BRIDGES

Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200

Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041

Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320

Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

ELECTRIC CELLS

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539

Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084

Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

ELECTRIC CHARGE

Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407

Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605

FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313

Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

ELECTRIC CHOPPERS

Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295

ELECTRIC COILS

Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462

Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

nase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

ELECTRIC CONDUCTORS

Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542

Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545

Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610

Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447

Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406

Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666

Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396

Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

ELECTRIC CONNECTORS

Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470

Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926

Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927

Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431

Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734

Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737

Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596

Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494

Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

Method of making a molded connector Patent
[NASA-CASE-MSC-03498] c 15 N71-15986

Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851

Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087

Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354

Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783

Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455

Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200

Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256

Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053

Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225

Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567

Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772

Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423

Four-terminal electrical testing device --- initiator bridewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N92-33020

ELECTRIC CONTACTS

Solid state switch
[NASA-CASE-NP-09228] c 09 N69-27500

- Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
- Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
- Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
- Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
- Substantially oxygen-free contact tube
[NASA-CASE-LAR-14169-1] c 37 N92-17677

ELECTRIC CONTROL

- Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

ELECTRIC CURRENT

- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
- Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
- Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
- Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
- High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
- Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
- Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
- Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
- Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
- Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
- Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
- Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
- Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
- Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479

ELECTRIC DISCHARGES

- Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
- Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
- Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
- Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941

ELECTRIC ENERGY STORAGE

- Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
- Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
- Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
- Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222

ELECTRIC EQUIPMENT

- Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
- Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
- Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
- Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
- Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
- Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
- Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07786] c 09 N71-29139
- Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
- Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
- Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140

ELECTRIC EQUIPMENT TESTS

- Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
- Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
- High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

ELECTRIC FIELD STRENGTH

- Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014

- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

ELECTRIC FIELDS

- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
- Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
- Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
- Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
- Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661
- Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911

ELECTRIC FILTERS

- Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
- Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
- Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
- Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

ELECTRIC FURNACES

- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

ELECTRIC FUSES

- Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
- Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
- Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

ELECTRIC GENERATORS

- Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
- Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
- Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
- Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
- RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139

Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862

Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203

Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252

A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253

Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109

Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837

Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524

Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828

Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421

Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424

Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769

Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

ELECTRIC IGNITION

Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

ELECTRIC MOTOR VEHICLES

Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776

ELECTRIC MOTORS

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030

Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Detent servo motor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861

Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999

Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244

Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476

Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386

Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197

ELECTRIC NETWORKS

Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058

Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029

Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316

Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583

Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

ELECTRIC POTENTIAL

Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438

Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338

Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246

Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200

Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203

Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204

Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055

FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313

Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025

Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544

High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539

Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479

Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785

Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124

ELECTRIC POWER

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376

Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296

Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

ELECTRIC POWER PLANTS

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

ELECTRIC POWER SUPPLIES

Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988

Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935

Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862

Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N92-24057

ELECTRIC POWER TRANSMISSION

Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988

Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870

Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

ELECTRIC PROPULSION

Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

ELECTRIC PULSES

Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655

Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447

Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993

Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12568-1] c 33 N83-34189

ELECTRIC RELAYS
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MS-11277] c 09 N71-29008
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625

ELECTRIC ROCKET ENGINES
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822

ELECTRIC SPARKS
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

ELECTRIC STIMULI
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ELECTRIC SWITCHES
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

ELECTRIC TERMINALS
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

ELECTRIC WELDING
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094

ELECTRIC WIRE
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586

Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
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- State-of-charge coulometer
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- Water electrolysis
[NASA-CASE-MS-C-21572-1-SB] c 25 N92-28756
- ELECTROMAGNETIC ABSORPTION**
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
- Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
- Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
- ELECTROMAGNETIC FIELDS**
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
- Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
- Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
- Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
- ELECTROMAGNETIC HAMMERS**
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
- Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
- ELECTROMAGNETIC INTERFERENCE**
Sealed cabinetry Patent
[NASA-CASE-MS-C-12168-1] c 09 N71-18600
- Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
- Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

ELECTROMAGNETIC MEASUREMENT

- Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
- Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- ELECTROMAGNETIC NOISE**
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
- Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
- Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
- ELECTROMAGNETIC PROPERTIES**
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
- ELECTROMAGNETIC PROPULSION**
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084
- ELECTROMAGNETIC PULSES**
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
- ELECTROMAGNETIC PUMPS**
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752
- ELECTROMAGNETIC RADIATION**
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[NASA-CASE-XMS-00893] c 07 N70-40063
- Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
- Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
- Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
- Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
- Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
- Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
- Method and apparatus for measuring distance
[NASA-CASE-MS-C-20912-1] c 32 N88-26568
- Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- ELECTROMAGNETIC SHIELDING**
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
- Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
- Shielded conductor cable system
[NASA-CASE-MS-C-12745-1] c 33 N81-27397
- ELECTROMAGNETIC WAVE FILTERS**
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
- ELECTROMAGNETIC WAVE TRANSMISSION**
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
- Gyrottron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
- ELECTROMAGNETISM**
Detentling servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- ELECTROMAGNETS**
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
- Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
- Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
- Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
- Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

- Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727
- Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
- Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101
- Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018
- ELECTROMECHANICAL DEVICES**
- Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
- Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
- Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
- Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
- Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
- Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
- Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
- Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
- Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
- Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
- Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
- ELECTROMECHANICS**
- Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727
- ELECTROMETERS**
- Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- ELECTROMIGRATION**
- Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
- ELECTROMOTIVE FORCES**
- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- ELECTRON ATTACHMENT**
- High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
- Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
- ELECTRON BEAM WELDING**
- Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
- Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- ELECTRON BEAMS**
- Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
- Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
- Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
- Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
- Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
- Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
- Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
- Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
- Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
- Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
- Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
- ELECTRON BOMBARDMENT**
- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
- Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
- Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
- Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
- Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
- Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813
- ELECTRON CAPTURE**
- Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
- ELECTRON DISTRIBUTION**
- Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
- ELECTRON EMISSION**
- Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- ELECTRON ENERGY**
- Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- ELECTRON FLUX DENSITY**
- Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
- ELECTRON GUNS**
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
- ELECTRON IRRADIATION**
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- ELECTRON MICROSCOPES**
- Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186
- ELECTRON MICROSCOPY**
- Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- ELECTRON OSCILLATIONS**
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- ELECTRON PHOTON CASCADES**
- Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- ELECTRON PLASMA**
- Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
- ELECTRON SCATTERING**
- Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
- ELECTRON SOURCES**
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- ELECTRON TRANSFER**
- Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
- All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808
- ELECTRON TRANSITIONS**
- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- ELECTRON TUBES**
- Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
- Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
- Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
- Gyrotrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
- ELECTRON TUNNELING**
- Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
- Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
- Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041
- ELECTRONIC CONTROL**
- Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
- Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
- Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320
- Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
- ELECTRONIC EQUIPMENT**
- Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
- Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
- Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097

Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

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Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Cross-contact chain
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Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
Programmable hyperspectral image mapper with on-array processing
[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104

ELECTRONIC MODULES
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347

Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

ELECTRONIC PACKAGING
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941

ELECTRONIC RECORDING SYSTEMS
Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

ELECTRONIC TRANSDUCERS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

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Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

ELECTROPHORESIS
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397
Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728

ELECTROPHOTOMETERS
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

ELECTROPHYSIOLOGY
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

ELECTROPLATING
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388

ELECTROSTATIC BONDING
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614

ELECTROSTATIC CHARGE
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

ELECTROSTATIC ENGINES
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

ELECTROSTATIC GENERATORS
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Piezoelectrostatic generator
[NASA-CASE-MFS-28298-1] c 76 N91-14872

ELECTROSTATIC PRECIPITATORS
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

ELECTROSTATIC PROBES
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

ELECTROSTATIC PROPULSION
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ELECTROSTATIC SHIELDING
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

ELECTROSTATICS

- Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
- Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
- Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
- Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121

ELECTROTHERMAL ENGINES

- Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
- Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
- Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875

ELEVATION

- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

ELEVATORS (LIFTS)

- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453

ELEVONS

- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

ELLIPSES

- Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

ELLIPSOIDS

- Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012

ELLIPSOID METERS

- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

ELONGATION

- Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
- Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449

ELUTION

- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

EMBEDDED COMPUTER SYSTEMS

- Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240

EMBEDDING

- Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

EMBRITTEMENT

- Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
- Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
- Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101
- Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

EMERGENCIES

- Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
- Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
- Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142
- Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
- Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530
- Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013
- Hazardous materials emergency response mobile robot
[NASA-CASE-NPO-18690-1-CU] c 37 N92-34205

EMERGENCY BREATHING TECHNIQUES

- Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

EMERGENCY LIFE SUSTAINING SYSTEMS

- Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
- Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
- Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755

EMERGENCY LOCATOR TRANSMITTERS

- Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

EMISSION SPECTRA

- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

EMITTANCE

- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

EMITTERS

- Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
- Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
- Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037

EMULSIONS

- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

ENAMELS

- Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

ENCAPSULATING

- Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
- Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
- Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
- Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
- Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490

ENCLOSURES

- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

END EFFECTORS

- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
- Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
- Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
- Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
- Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
- Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
- Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
- Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
- Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

Method and apparatus for releasably connecting first and second objects

- [NASA-CASE-MSC-21517-1] c 31 N92-16161
- End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559
- Configuration control of seven-degree-of-freedom arms
[NASA-CASE-NPO-18607-1-CU] c 37 N92-23553
- Bar-holding prosthetic limb
[NASA-CASE-MFS-28481-1] c 54 N92-24056
- Retractable tool bit having slider type catch mechanism
[NASA-CASE-GSC-13358-1] c 37 N92-24058
- Double-V block fingers with cruciform recess
[NASA-CASE-GSC-13356-1] c 37 N92-24243
- Robot serviced space facility
[NASA-CASE-GSC-13408-1] c 18 N92-24244
- Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N92-29138
- Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018
- Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019
- Hazardous materials emergency response mobile robot
[NASA-CASE-NPO-18690-1-CU] c 37 N92-34205
- Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N92-34212

END PLATES

- Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

END-TO-END DATA SYSTEMS

- Miniature modular microwave end-to-end receiver
[NASA-CASE-NPO-18713-1-CU] c 32 N92-30103

ENDOSCOPES

- Boreoscope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
- Apparatus for endoscopic examination — analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725

ENDOTHERMIC REACTIONS

- Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975

ENEMY PERSONNEL

- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

ENERGY ABSORPTION

- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
- Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
- Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
- Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
- Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
- Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
- Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007

ENERGY BANDS

- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

ENERGY CONSERVATION

- Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

ENERGY CONSUMPTION

- Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

ENERGY CONVERSION

- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109

- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
- Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
- Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
- Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
- Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
- Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
- ENERGY CONVERSION EFFICIENCY**
- Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
- Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
- Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- ENERGY DISSIPATION**
- Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
- Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
- Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
- High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
- Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492
- ENERGY DISTRIBUTION**
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- ENERGY GAPS (SOLID STATE)**
- High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
- Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372
- ENERGY LEVELS**
- High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
- Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- ENERGY POLICY**
- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
- Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
- Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
- Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
- Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- ENERGY SOURCES**
- Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
- Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
- ENERGY STORAGE**
- Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
- Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
- Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
- Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
- Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143
- ENERGY TECHNOLOGY**
- Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
- Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
- ENERGY TRANSFER**
- Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657
- Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
- Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180
- Pulse thermal energy transport/storage system
[NASA-CASE-LEW-15235-1] c 34 N92-29125
- Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143
- ENGINE ANALYZERS**
- Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
- ENGINE CONTROL**
- Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- ENGINE COOLANTS**
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
- ENGINE DESIGN**
- Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
- Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
- Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
- Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
- Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
- Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- ENGINE FAILURE**
- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
- ENGINE INLETS**
- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
- Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- ENGINE MONITORING INSTRUMENTS**
- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
- ENGINE NOISE**
- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
- Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- ENGINE PARTS**
- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560
- ENGINE STARTERS**
- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- ENGINE TESTS**
- Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- ENGINEERING DRAWINGS**
- High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389

- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- ENGRAVING**
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
- ENTHALPY**
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- ENTRAINMENT**
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- ENUMERATION**
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- ENVIRONMENTAL SIMULATION**
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910
- ENVIRONMENTAL SIMULATORS**
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
- ENVIRONMENTAL CONTROL**
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Dual solid cryogen for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
- ENVIRONMENTAL ENGINEERING**
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
- ENVIRONMENTAL MONITORING**
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- ENVIRONMENTAL TESTS**
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- ENVIRONMENTS**
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
- ENZYMATIC ACTIVITY**
Use of the enzyme hexokinase for the reduction of, inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- ENZYMES**
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486
- EPICYCLOIDS**
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
- EPITAXY**
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
- EPOXY COMPOUNDS**
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
- EPOXY MATRIX COMPOSITES**
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
- EPOXY RESINS**
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Metal (2, 4, 4', 4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
A process for preparing 1,3-diamino-5-pentafluorosulfanybenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
- EQUATIONS OF MOTION**
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
- EQUIPMENT**
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- EQUIPMENT SPECIFICATIONS**
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Optical torqueometer Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
- EQUIPOTENTIALS**
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
- ERGOMETERS**
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
- EROSION**
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- ERROR ANALYSIS**
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-34174
- ERROR CORRECTING DEVICES**
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N92-33011
- ERROR CORRECTING DEVICES**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843

Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

ERROR DETECTION CODES

Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

ERROR SIGNALS

Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

ERRORS

Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

ESCAPE CAPSULES

Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

ESCAPE SYSTEMS

Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999

ESCHERICHIA

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

ESTERS

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053

ESTIMATING

Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865

ETCHING

Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574

Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947
Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N92-25399

ETHANE

The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882

ETHERS

Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307
Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N92-33008

Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N92-33015

ETHYL COMPOUNDS

Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

ETHYLENE OXIDE

Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

EUTECTIC ALLOYS

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

EVAUATING (VACUUM)

Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111

EVAPORATION

Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

EVAPORATIVE COOLING

Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

EVAPORATORS

Evaporant source for vapor deposition Patent
[NASA-CASE-MFP-06065] c 15 N71-20395
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
Pulse thermal energy transport/storage system
[NASA-CASE-LEW-15235-1] c 34 N92-29125

EVENT HORIZON

Synchronous parallel system for emulation and discrete event simulation
[NASA-CASE-NPO-18414-1-CU] c 62 N92-24045

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Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-NPO-23315-1] c 76 N78-24950
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

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Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

EXCITATION

Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
Optical fiber sensor having an active core
[NASA-CASE-LAR-14607-1SB] c 74 N92-30029

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Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

EXHAUST EMISSION

Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

EXHAUST GASES

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

EXHAUST NOZZLES

Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

EXOTHERMIC REACTIONS

Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

EXPANDABLE STRUCTURES

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

EXPANSION

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

EXPERIMENT DESIGN

Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

EXPERT SYSTEMS

General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036

EXPIRED AIR

Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

EXPLOSIONS

Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

EXPLOSIVE DEVICES

Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476

EXPLOSIVE FORMING

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

EXPLOSIVE WELDING

Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476

EXPLOSIVES

Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162

EXPONENTIAL FUNCTIONS

Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176

EXPOSURE

Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

EXPULSION

Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

EXPULSION BLADDERS

Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182

EXTENSIONS

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

EXTENSOMETERS

Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

EXTERNAL COMBUSTION ENGINES

Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

EXTERNAL STORE SEPARATION

Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

EXTERNAL STORES

Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

EXTERNAL TANKS

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

EXTRACTION

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Chassis unit insert tightening-extract device
[NASA-CASE-MSC-01077-1] c 37 N79-33467
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

EXTRAVEHICULAR ACTIVITY

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Serpentuator Patent
[NASA-CASE-LAR-05344] c 31 N71-16345
Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N92-29092

EXTREME ULTRAVIOLET RADIATION

Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

EXTREMELY LOW RADIO FREQUENCIES

VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

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Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502

EYE (ANATOMY)

Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N92-28755

EYE DISEASES

Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

EYE EXAMINATIONS

Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

EYEPieces

Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

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Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333

Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478
Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508
Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146
Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542
Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014
Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241

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Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARG-11310-1] c 27 N82-24339
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220

FABRY-PEROT INTERFEROMETERS

Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491

FACSIMILE COMMUNICATION

Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

FACTORIAL DESIGN

Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195

FAIL-SAFE SYSTEMS

Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

FAILURE

Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

FAILURE ANALYSIS

Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018

FAILURE MODES

High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121

FAIRINGS

Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

FALLING SPHERES

Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

FAR FIELDS

Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122

FAR INFRARED RADIATION

Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

FAR ULTRAVIOLET RADIATION

Transient heat transfer gauge Patent
[NASA-CASE-NPO-09802] c 33 N71-15641

FARADAY EFFECT

Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

FAST FOURIER TRANSFORMATIONS

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

FASTENERS

Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969

- Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
- Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221
- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
- Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354
- J-hook latching device
[NASA-CASE-GSC-13200-1] c 37 N92-21500
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
- Quick-connect fasteners for assembling devices in space
[NASA-CASE-MSC-21648-1] c 37 N92-24051
- FATIGUE (MATERIALS)**
- Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- FATIGUE LIFE**
- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
- High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
- High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- FATIGUE TESTING MACHINES**
- Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- FATIGUE TESTS**
- Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175
- FATS**
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- FAULT TOLERANCE**
- Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
- Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
- Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
- Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
- Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498
- Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727
- FECES**
- Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
- Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
- FEED SYSTEMS**
- Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
- Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
- Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
- Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
- Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- FEEDBACK**
- Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
- Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
- Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- FEEDBACK AMPLIFIERS**
- Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
- Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
- FEEDBACK CIRCUITS**
- Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
- Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
- Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
- Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
- Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
- Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
- FEEDBACK CONTROL**
- Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
- Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
- Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
- A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N72-26004
- Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-1792-1] c 33 N74-11049
- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
- The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
- System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
- Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
- Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
- Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
- Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
- Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824
- Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
- Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
- Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863
- Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N92-28750
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752
- Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099
- Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
- Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083
- FEEDBACK FREQUENCY MODULATION**
- Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
- Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
- FEEDERS**
- Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
- Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
- Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
- FEEDFORWARD CONTROL**
- Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
- FEET (ANATOMY)**
- Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
- FELTS**
- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
- FEMALES**
- Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- FERMENTATION**
- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- FERRITES**
- Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
- Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
- FERROFLUIDS**
- Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- FERROMAGNETIC FILMS**
- High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
- FERROMAGNETIC MATERIALS**
- Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
- Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

FERROMAGNETISM

High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

FETUSES

Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016

FIBER COMPOSITES

Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MS-C-21169-1] c 27 N89-29539
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N91-25199
Intercalated hybrid graphite fiber composite
[NASA-CASE-LEW-15241-1] c 24 N92-17861
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053
Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 N92-34214

FIBER OPTICS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-C-18627-1] c 74 N82-30071
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749

Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957
Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MS-C-21806-1] c 74 N92-17863
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017

FIBER RELEASE
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

FIBER STRENGTH
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

FIBERS
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MS-C-18934-3] c 24 N82-26387
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043
Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790

FIELD COILS

Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

FIELD EFFECT TRANSISTORS

Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331

Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245

FIELD EMISSION

Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832

FIELD OF VIEW

Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
EMU helmet mounted display
[NASA-CASE-MS-C-21460-1] c 54 N91-13879
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

FILAMENT WINDING

Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

FILAMENTS

Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Process for application of powder particles to filamentary materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070

FILLERS

Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
Thermally activated retainer means
[NASA-CASE-MS-C-21793-1] c 16 N91-28186

FILLING

Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

FILM COOLING

Multilayer film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

FILM THICKNESS

- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

FILMS

- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

FILTERS

- Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
- Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

FILTRATION

- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
- Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

FINGERS

- Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493
- Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795
- Fingered bola body, bola with same, and methods of use
[NASA-CASE-MSC-21967-1] c 37 N92-30026

FINS

- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

FIRE EXTINGUISHERS

- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

FIRE PREVENTION

- Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
- Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568

FIREPROOFING

- Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
- Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
- Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
- Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

FIRES

- Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
- Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

FIRING (IGNITING)

- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

FITTING

- Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
- Quick-connect fasteners for assembling devices in space
[NASA-CASE-MSC-21648-1] c 37 N92-24051

FITTINGS

- Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
- Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
- Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
- Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958
- Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

FIXED WINGS

- Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

FIXTURES

- Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354

FLAME PROBES

- Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

FLAME RETARDANTS

- Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
- Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

Phosphorus-containing imide resins

- [NASA-CASE-ARC-11368-1] c 27 N83-31854
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

- The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- Maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042

FLAME SPRAYING

- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
- Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

FLAME TEMPERATURE

- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

FLAMES

- Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
- Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403

FLAMMABILITY

- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
- Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
- Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
- Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

FLANGES

- Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
- Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
- Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
- Robot serviced space facility
[NASA-CASE-GSC-13408-1] c 18 N92-24244

FLAPS (CONTROL SURFACES)

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
- Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736

FLARED BODIES

- Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389

FLASH LAMPS

- Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

FLAT CONDUCTORS

- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
- Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
- Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
- Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
- Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

FLAT PLATES

- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
- Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

- Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- FLEXIBILITY**
- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
- Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
- Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
- High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
- Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
- FLEXIBLE BODIES**
- Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
- Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
- Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
- Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
- Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
- Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
- High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560
- Quick-connect fasteners for assembling devices in space
[NASA-CASE-MSC-21648-1] c 37 N92-24051
- Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14679-2] c 32 N92-31150
- Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14418-1] c 32 N92-31257
- Flexible robotic arm
[NASA-CASE-GSC-13161-1] c 37 N92-33634
- FLEXIBLE WINGS**
- Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
- Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
- Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
- FLEXING**
- Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
- FLIGHT**
- Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

FLIGHT ALTITUDE

- Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
- Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
- CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

FLIGHT CLOTHING

- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

FLIGHT CONTROL

- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
- Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
- Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
- Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
- Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
- Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

FLIGHT CREWS

- Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285

FLIGHT INSTRUMENTS

- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

FLIGHT PATHS

- Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

FLIGHT RECORDERS

- Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

FLIGHT SAFETY

- Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
- Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

FLIGHT SIMULATION

- Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
- Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
- Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
- Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

FLIGHT SIMULATORS

- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
- Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206

- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
- Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
- Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-LAR-11312-1] c 36 N83-34304
- Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990
- Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

FLIGHT TESTS

- Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386

FLIGHT TRAINING

- Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

FLIGHT VEHICLES

- Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
- Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326

FLIP-FLOPS

- AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
- Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

FLIGHT ZONES

- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
- Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

FLOATING

- Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
- Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845

FLOATING

- Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

FLOATS

- Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820

FLOORS

- Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

FLOTATION

- Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748

FLOW CHAMBERS

- Multi-chamber controllably heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

FLOW CHARACTERISTICS

- Polyimide processing additives
[NASA-CASE-LAR-13669-1] c 27 N92-29157
- Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N92-34172

FLOW DIRECTION INDICATORS

- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
- Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

FLOW DISTORTION

Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

FLOW DISTRIBUTION

Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MS-C-20840-1] c 34 N88-29132
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729

FLOW MEASUREMENT

Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MS-C-18761-1] c 52 N83-27577
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609
Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390

FLOW REGULATORS
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967

Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Pneumatic amplifier Patent
[NASA-CASE-MS-C-12121-1] c 15 N71-27147
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Pressure modulating valve
[NASA-CASE-MS-C-14905-1] c 37 N77-28487
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MS-C-18761-1] c 52 N83-27577
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
Bio-reactor chamber
[NASA-CASE-MS-C-20929-1] c 51 N91-14703
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
Variable orifice flow regulator
[NASA-CASE-MS-C-21549-1] c 34 N91-27504

FLOW RESISTANCE

Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

FLOW STABILITY

Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

FLOW VELOCITY

Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N92-34172

FLOW VISUALIZATION

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588
Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N92-30312
A shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1] c 39 N92-30317

FLOWMETERS

Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Heated element fluid flow sensor Patent
[NASA-CASE-MS-C-12084-1] c 12 N71-17569
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Respiratory analysis system and method
[NASA-CASE-MS-C-13436-1] c 05 N73-32015
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

FLUID AMPLIFIERS

Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

FLUID DYNAMICS

Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MS-C-18936-1] c 35 N83-29652

FLUID FILLED SHELLS

Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

FLUID FILMS

Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061

- Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
- Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
- FLUID FILTERS**
- Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
- High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
- Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
- Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
- Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
- Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
- Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- FLUID FLOW**
- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
- Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
- Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
- Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
- Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
- Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
- Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
- Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
- Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
- Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
- Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
- Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
- Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
- Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
- Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
- Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
- Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
- Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447

- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
- Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
- Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
- Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
- Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
- Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
- Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
- Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
- Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
- Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197
- Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752
- Pulse thermal energy transport/storage system
[NASA-CASE-LEW-15235-1] c 34 N92-29125
- Converting a CO₂ atmosphere to a high-purity O₂ supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098
- Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N92-30312
- FLUID INJECTION**
- Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
- Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
- Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
- Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
- Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
- FLUID JETS**
- Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
- FLUID LOGIC**
- Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
- FLUID MANAGEMENT**
- Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

FLUID MECHANICS

- Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
- Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
- Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442
- FLUID POWER**
- Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
- Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
- FLUID PRESSURE**
- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
- Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
- Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909
- FLUID ROTOR GYROSCOPES**
- Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
- FLUID SWITCHING ELEMENTS**
- Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
- FLUID TRANSMISSION LINES**
- Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
- FLUIDIC CIRCUITS**
- Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
- FLUIDICS**
- Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
- Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
- Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
- Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752
- FLUIDIZED BED PROCESSORS**
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- FLUIDS**
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
- Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
- Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
- Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
- Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724
- FLUORESCENCE**
- Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
- Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947

- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
- Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
- Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
- Optical fiber sensor having an active core
[NASA-CASE-LAR-14607-1SB] c 74 N92-30029
- FLUORIDES**
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
- Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
- Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
- Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425
- Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206
- FLUORINATION**
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
- FLUORINE**
- Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- FLUORINE COMPOUNDS**
- Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MS-18430-1] c 37 N82-24491
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
- FLUORINE ORGANIC COMPOUNDS**
- Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
- FLUORO COMPOUNDS**
- New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
- Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-6] c 23 N92-17882
- FLUOROCARBONS**
- Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- FLUOROHYDROCARBONS**
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
- FLUOROPOLYMERS**
- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- FLUTTER**
- Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- FLUTTER ANALYSIS**
- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- FLUX (RATE)**
- Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- FLUX DENSITY**
- Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
- FLUXES**
- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- FLYING PLATFORMS**
- System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
- FLYWHEELS**
- Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
- Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
- Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
- FOAMS**
- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
- Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
- Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
- Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
- FOCAL PLANE DEVICES**
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
- Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
- Programmable hyperspectral image mapper with on-array processing
[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104
- FOCI**
- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- FOCUSING**
- X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
- Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
- RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
- Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
- Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
- FOG**
- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
- Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
- Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
- FOILS (MATERIALS)**
- Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
- Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
- Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- FOLDING**
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
- FOLDING STRUCTURES**
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035
- FOOD**
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- FOOTPRINTS**
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- FORCE**
Ferofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
- FORCE DISTRIBUTION**
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927
- FORCED VIBRATION**
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
- FOREARM**
Prosthetic helping hand
[NASA-CASE-MFS-28430-1] c 54 N92-24044
- FOREBODIES**
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

FORMALDEHYDE

- Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

FORMAT

- Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

FORMATES

- Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

FORMING TECHNIQUES

- Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333

FOSSIL FUELS

- Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

FOUNDATIONS

- Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

FOURIER TRANSFORMATION

- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

FRACTIONATION

- Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

FRACTURE MECHANICS

- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

FRACTURE STRENGTH

- Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484

- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

FRAMES

- Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
Page turning system
[NASA-CASE-GSC-13415-1] c 37 N92-33616

FRAMING CAMERAS

- High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411

FREE FLIGHT TEST APPARATUS

- Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926

FREE WING AIRCRAFT

- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

FREEZE DRYING

- Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

FREEZING

- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

FREON

- Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581

FREQUENCIES

- Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

FREQUENCY ANALYZERS

- Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607

FREQUENCY CONTROL

- Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790

Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427

Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454

Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943

Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

FREQUENCY CONVERTERS

Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500

Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752

Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882

Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257

Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874

FREQUENCY DISCRIMINATORS

PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

FREQUENCY DISTRIBUTION

Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200

Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810

Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124

FREQUENCY DIVIDERS

Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223

Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330

Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

FREQUENCY DIVISION MULTIPLEXING

Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621

Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

FREQUENCY MEASUREMENT

Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386

Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331

Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338

Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692

Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557

Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182

FREQUENCY MODULATION

Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298

Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100

Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489

Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461

Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790

Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330

Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351

FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370

Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

FREQUENCY MULTIPLIERS

Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414

Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375

Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N92-23464

FREQUENCY RANGES

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223

Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321

Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124

FREQUENCY RESPONSE

Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951

FREQUENCY SCANNING

Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262

Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

FREQUENCY SHIFT

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088

Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814

Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828

Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321

Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557

FREQUENCY SHIFT KEYING

Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282

Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405

Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

FREQUENCY STABILITY

Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614

Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331

Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

FREQUENCY STANDARDS

Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099

Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436

Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362

Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

FREQUENCY SYNCHRONIZATION

Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084

Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

FREQUENCY SYNTHESIZERS

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

FRICTION

Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588

Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N92-29138

FRICTION DRAG

Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

FRICTION FACTOR

Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984

Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331

Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N92-34173

FRICTION MEASUREMENT

Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696

Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008

FRICTION REDUCTION

- Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
- Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
- Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
- Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
- FRICTIONLESS ENVIRONMENTS**
- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
- Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
- FROST**
- Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
- FROZEN FOODS**
- Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
- FRUSTUMS**
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
- FUEL CAPSULES**
- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- FUEL CELL POWER PLANTS**
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
- FUEL CELLS**
- Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
- Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
- FUEL COMBUSTION**
- Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- FUEL CONSUMPTION**
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- Method for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N92-15122
- FUEL CONTROL**
- Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

FUEL FLOW

- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- FUEL FLOW REGULATORS**
- Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
- Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- FUEL GAGES**
- Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
- FUEL INJECTION**
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
- Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
- Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
- Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
- Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054
- FUEL OILS**
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- FUEL PUMPS**
- Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
- FUEL SYSTEMS**
- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
- Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
- Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054
- FUEL TANK PRESSURIZATION**
- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
- FUEL TANKS**
- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

- Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
- FUEL VALVES**
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
- Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
- Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
- FUEL-AIR RATIO**
- Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- FUELS**
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- FUNCTION GENERATORS**
- Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
- Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
- A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
- FURLABLE ANTENNAS**
- Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
- Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
- Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457
- FURNACES**
- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
- Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
- High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175
- FUSELAGES**
- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
- FUSION (MELTING)**
- Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571

- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- FUSION WELDING**
- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
- Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
- FUZZY SYSTEMS**
- Reconfigurable fuzzy cell
[NASA-CASE-MSC-21613-1] c 61 N92-10331

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- GADOLINIUM**
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- GALILEO PROJECT**
- Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
- GALLIUM**
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- GALLIUM ARSENIDES**
- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
- Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
- Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
- GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245
- Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542
- Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
- GALLIUM PHOSPHIDES**
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- GALVANIC SKIN RESPONSE**
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

- GAMMA RAY SPECTROMETERS**
- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- GAMMA RAYS**
- Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
- Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- Gamma ray collimator
[NASA-CASE-GSC-00013-1] c 38 N91-32515
- GANTRY CRANES**
- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- GAPS**
- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186
- GARMENTS**
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
- GAS ANALYSIS**
- Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
- Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
- Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
- Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
- Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
- Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
- Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
- Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

- GAS BAGS**
- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
- GAS BEARINGS**
- Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
- Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
- Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
- Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
- Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
- Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- GAS CHROMATOGRAPHY**
- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- GAS COMPOSITION**
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- GAS COOLED REACTORS**
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- GAS COOLING**
- Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
- GAS DENSITY**
- Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
- Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
- Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

- Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
- Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609
- GAS DETECTORS**
- Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
- Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
- Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
- GAS DISCHARGE TUBES**
- Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
- GAS DISCHARGES**
- Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
- Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
- Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
- GAS EVOLUTION**
- Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
- GAS EXPANSION**
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
- GAS FLOW**
- Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
- High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
- Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
- Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
- Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
- Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
- Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
- Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
- Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
- Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
- Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
- Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
- Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
- Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
- Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
- Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
- High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241
- Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N92-33030
- GAS GENERATORS**
- Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
- Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
- Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
- Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
- GAS GUNS**
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- GAS HEATING**
- Bi-metallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
- GAS INJECTION**
- Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
- Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
- In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
- Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
- GAS IONIZATION**
- Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
- A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
- Modulated hydrogen ion flame detector
[NASA-CASE-NPO-10322-1] c 35 N76-18403
- Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
- Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
- GAS JETS**
- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
- GAS LASERS**
- Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
- Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
- Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- GAS LUBRICANTS**
- Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
- Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
- Canilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- GAS MASERS**
- Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
- Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
- GAS MIXTURES**
- Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
- Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
- GAS PIPES**
- Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
- Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
- GAS PRESSURE**
- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
- Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
- Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
- Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

- Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727
- Converting a CO₂ atmosphere to a high-purity O₂ supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098
- Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N92-33030

GAS STREAMS

- Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
- Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
- Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

GAS TEMPERATURE

- Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

GAS TRANSPORT

- Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

GAS TUBES

- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

GAS TUNGSTEN ARC WELDING

- Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

GAS TURBINE ENGINES

- Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
- Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
- Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
- Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
- Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
- Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

GAS TURBINES

- Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
- Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
- Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180

GAS VALVES

- High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
- Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
- Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
- Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

GAS WELDING

- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

GAS-LIQUID INTERACTIONS

- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282

GAS-METAL INTERACTIONS

- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

GASDYNAMIC LASERS

- Diatom infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

GASEOUS DIFFUSION

- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
- Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

GASEOUS FISSION REACTORS

- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- GASEOUS ROCKET PROPELLANTS**
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

GASES

- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
- Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
- Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

GASIFICATION

- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

GASKETS

- Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175

GATES (CIRCUITS)

- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
- Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
- Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
- Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
- Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
- Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057
- GATES (OPENINGS)**
- Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

GAW-1 AIRFOIL

- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154

GEAR TEETH

- Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
- Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

GEARS

- Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
- Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377

- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927

GELATION

- Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539

GELLED ROCKET PROPELLANTS

- Process of forming particles in a cryogenic path
Patent
[NASA-CASE-NPO-10250] c 23 N71-16212

GELS

- Intermittent type silica gel adsorption refrigerator
Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
Production of mulite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870

GENERAL AVIATION AIRCRAFT

- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

GENERATORS

- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

GENETIC ENGINEERING

- Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

GEODESY

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

GEODETIC SURVEYS

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEODIMETERS

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEOLOGICAL SURVEYS

- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

GEOMETRY

- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

GERMANIUM

- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

GERMANIUM ALLOYS

- Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

GIMBALS

- Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537

Failure detection and control means for improved drift performance of a gimbaled platform system

- [NASA-CASE-MFS-23551-1] c 04 N76-26175
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Quick acting gimbal joint
[NASA-CASE-MSC-21918-1] c 37 N92-30316

GLANDS (SEALS)

- Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

GLASS

- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614

GLASS COATINGS

- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

GLASS ELECTRODES

- Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

GLASS FIBER REINFORCED PLASTICS

- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

GLASS FIBERS

- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

GLASS TRANSITION TEMPERATURE

- Polyimides containing the cyclobutene-3,4-dione moiety
[NASA-CASE-LAR-14753-1] c 27 N92-30313

GLASSWARE

- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

GLAUCOMA

- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

GLIDE LANDINGS

- Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013

GLIDE PATHS

- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

GLOBAL POSITIONING SYSTEM

- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

GLOBES

- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

GLOVES

- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

GLOW DISCHARGES

- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

GLUCOSE

- Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

GLYCOLS

- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

GOLD COATINGS

- Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

GONDOLAS

- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

GRADIENTS

- Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- Gradient tempering process
[NASA-CASE-MFS-28496-1] c 26 N92-34239

GRANULAR MATERIALS

- Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
- Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

GRAPHITE

- Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
- Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
- Intercalated hybrid graphite fiber composite
[NASA-CASE-LEW-15241-1] c 24 N92-17861
- Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206

GRAPHITE-EPOXY COMPOSITES

- Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
- Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
- Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

GRAPHITIZATION

- Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
- Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N92-10090
- Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206

GRATINGS (SPECTRA)

- Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
- Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
- Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
- Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186

GRAVIMETERS

- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

GRAVITATION

- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

GRAVITATIONAL CONSTANT

- Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196

GRAVITATIONAL EFFECTS

- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
- Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
- Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790

GRAVITATIONAL FIELDS

- Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
- Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231

GRAVITY GRADIENT SATELLITES

- Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
- Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

GRAVITY GRADIOMETERS

- Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
- Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

GRAZING INCIDENCE

- Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
- Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GRAZING INCIDENCE TELESCOPES

- Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GREENHOUSES

- Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

GRIDS

- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666

GRINDING (MATERIAL REMOVAL)

- Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
- Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
- Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

GRINDING MACHINES

- Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

GROOVES

- Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
- Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
- Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508

GROUND EFFECT (COMMUNICATIONS)

- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

GROUND EFFECT MACHINES

- Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
- Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
- Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672

GROUND HANDLING

- Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

GROUND STATE

- Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

GROUND STATIONS

- Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

GROUND SUPPORT EQUIPMENT

- Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391

- Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
- GROUND-AIR-GROUND COMMUNICATION**
- Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
- Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
- Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

GROUT

- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

GUANIDINES

- Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122
- Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461

GUARDS (SHIELDS)

- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

GUIDANCE (MOTION)

- Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
- Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
- Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
- Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
- Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
- Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

GUIDANCE SENSORS

- Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
- Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
- Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
- Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
- Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

GUN LAUNCHERS

- Self-obliterating, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

GUN PROPELLANTS

- Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
- Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

GUNN EFFECT

- Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
- Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
- Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
- Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

GUNS

- Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

GUNS (ORDNANCE)

- Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196

GYNECOLOGY

- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

GYRATORS

- Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
- Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
- Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638

Integrable power gyator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

GYROSCOPES
Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

GYROSCOPIC PENDULUMS
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

GYROSTABILIZERS
Passive dual spin misalignment compensators --- gyro stabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

H

HABITATS
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

HAFNIUM
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

HALIDES
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

HALL EFFECT
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

HALL GENERATORS
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

HALOGENS
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

HAMMERS
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

HAND (ANATOMY)
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
Bar-holding prosthetic limb
[NASA-CASE-MFS-28481-1] c 54 N92-24056

HANDLES
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

HANDLING EQUIPMENT
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

HARDENING (MATERIALS)
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

HARDNESS
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

HARMONIC GENERATIONS
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

HARMONIC GENERATORS
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

HARNESSES
Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

HATCHES
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542

HAZARDS
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

HEAD-UP DISPLAYS
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

HEART FUNCTION
Rate meter
[NASA-CASE-MFS-20418] c 14 N73-24473
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726

HEART RATE
Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Rate meter
[NASA-CASE-MFS-20418] c 14 N73-24473
Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016

HEAT
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599

HEAT EXCHANGERS
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573

Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752
Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-2] c 34 N92-30024

HEAT FLUX
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
Method of producing a plug-type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N92-22038
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-2] c 34 N92-30024

HEAT MEASUREMENT
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-16830
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c 35 N74-27860
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002

HEAT OF COMBUSTION
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002

HEAT OF VAPORIZATION
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

HEAT PIPES
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568

- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
- Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
- Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
- Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
- Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
- Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
- Heat tube device
[NASA-CASE-KSC-11395-1-CU] c 34 N91-21473
- Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143
- HEAT PUMPS**
- Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
- Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
- Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
- Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
- Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587
- HEAT RADIATORS**
- Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
- Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
- Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
- Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589
- HEAT RESISTANT ALLOYS**
- High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
- Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
- Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
- Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
- Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
- Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
- Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
- Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
- Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
- Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
- Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
- HEAT SHIELDING**
- Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
- Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
- Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
- Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
- Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
- Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
- Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
- Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
- Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
- Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
- HEAT SINKS**
- Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
- Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
- Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
- Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
- Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
- Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
- Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
- Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
- High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
- Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
- Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208
- HEAT SOURCES**
- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
- Method and apparatus for thermographically and quantitatively analyzing a structure for disbands and/or inclusions
[NASA-CASE-LAR-14559-1] c 38 N92-29829
- HEAT STORAGE**
- Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
- Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
- Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
- Pulse thermal energy transport/storage system
[NASA-CASE-LEW-15235-1] c 34 N92-29125
- HEAT TRANSFER**
- Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
- Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
- Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
- Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277
- Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
- Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
- High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
- Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
- Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
- Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
- Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958
- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
- Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
- Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
- Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668

- Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- Heat tube device
[NASA-CASE-KSC-11395-1-CU] c 34 N91-21473
- Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180
- Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752
- Pulse thermal energy transport/storage system
[NASA-CASE-LEW-15235-1] c 34 N92-29125
- Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-2] c 34 N92-30024
- Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208
- HEAT TRANSMISSION**
- Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- Method and apparatus for thermographically and quantitatively analyzing a structure for disbands and/or inclusions
[NASA-CASE-LAR-14559-1] c 38 N92-29829
- HEAT TREATMENT**
- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
- Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 12 N72-22487
- Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
- Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
- Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199
- HEATERS**
- Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
- HEATING**
- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
- Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175
- Method and apparatus for preloading a joint by remotely operable means
[NASA-CASE-MSC-21940-1] c 37 N92-30540
- HEATING EQUIPMENT**
- Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
- Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
- Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
- Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14679-2] c 32 N92-31150
- HEIGHT**
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
- HELICAL ANTENNAS**
- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
- HELICAL WINDINGS**
- High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043
- HELICES**
- Helix translation device --- shim for precision displacements
[NASA-CASE-GSC-13141-1] c 37 N92-23548
- HELICOPTER CONTROL**
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
- Helicopter low-speed yaw control
[NASA-CASE-LAR-14219-1] c 08 N92-30025
- HELICOPTER DESIGN**
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
- HELICOPTER WAKES**
- Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
- HELICOPTERS**
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
- Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847
- Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
- High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224
- Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113
- Helicopter low-speed yaw control
[NASA-CASE-LAR-14219-1] c 08 N92-30025
- HELIOSTATS**
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- HELIUM**
- Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
- High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- HELIUM HYDROGEN ATMOSPHERES**
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- HELIUM IONS**
- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
- HELIUM-NEON LASERS**
- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
- HELMET MOUNTED DISPLAYS**
- EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
- HELMETS**
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
- Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
- Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091
- HELMHOLTZ RESONATORS**
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- HEMISPHERICAL SHELLS**
- Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
- HERMETIC SEALS**
- Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
- Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
- Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
- Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
- Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
- Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
- Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
- Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
- Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493

Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MS-20181-1] c 33 N88-23941

HETEROCYCLIC COMPOUNDS

Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953

HETEROJUNCTIONS

High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841

Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N92-23464

HEXAGONS

Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515

HEXAMETHYLENETETRAMINE

Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999

HEXOKINASE

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

HIERARCHIES

Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036

HIGH ACCELERATION

Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819

High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

HIGH ALTITUDE

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

HIGH ALTITUDE BALLOONS

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

HIGH ALTITUDE ENVIRONMENTS

Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

HIGH ASPECT RATIO

Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

HIGH FREQUENCIES

Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318

Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311

Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414

Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929

JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

HIGH GAIN

Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

Position-error-based force reflection and compliance control
[NASA-CASE-NPO-18668-1-CU] c 37 N92-29765

HIGH LEVEL LANGUAGES

High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895

HIGH PASS FILTERS

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

HIGH POLYMERS

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486

HIGH POWER LASERS

Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616

Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542

HIGH PRESSURE

High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817

High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447

Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811

Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074

High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778

Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925

High pressure air valve Patent
[NASA-CASE-MS-11010] c 15 N71-19485

Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234

High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044

Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310

Gas compression apparatus
[NASA-CASE-MS-14757-1] c 35 N78-10428

Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MS-18422-1] c 37 N82-16408

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971

Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407

High-pressure promoted combustion chamber
[NASA-CASE-MS-21470-1] c 09 N91-21157

Variable orifice flow regulator
[NASA-CASE-MS-21549-1] c 34 N91-27504

HIGH RESOLUTION

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490

High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135

Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012

HIGH SPEED

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915

Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225

Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490

Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

Shaft seal assembly for high speed and high pressure applications

[NASA-CASE-LEW-11873-1] c 37 N79-22475

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423

High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

Controlling flexible robot arms using a high speed dynamics process
[NASA-CASE-NPO-18499-1-CU] c 37 N92-24042

Controlling under-actuated robot arms using a high speed dynamics process
[NASA-CASE-NPO-18498-1-CU] c 37 N92-24043

HIGH SPEED CAMERAS

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

HIGH STRENGTH

Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539

High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122

HIGH STRENGTH ALLOYS

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644

Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153

Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535

Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415

High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484

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Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271

HIGH TEMPERATURE

High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255

Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925

Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088

Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267

Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539

Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465

High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373

Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581

Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-13436

High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399

Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352

Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971

Method of making a flexible diaphragm
[NASA-CASE-MS-20797-1] c 37 N87-23981

Bis(4-(3,4-dimethylenepyrrolyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118

Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216

- High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
- High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
- A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
- Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
- Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
- Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199
- High temperature, flexible pressure-actuated, brush seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318
- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
- High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094
- Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099
- HIGH TEMPERATURE AIR**
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
- HIGH TEMPERATURE ENVIRONMENTS**
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
- Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
- HIGH TEMPERATURE FLUIDS**
Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
- High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- HIGH TEMPERATURE GASES**
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
- Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13649-1] c 28 N80-10374
- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
- HIGH TEMPERATURE LUBRICANTS**
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- HIGH TEMPERATURE PLASMAS**
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
- HIGH TEMPERATURE PROPELLANTS**
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- HIGH TEMPERATURE RESEARCH**
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
- HIGH TEMPERATURE SUPERCONDUCTORS**
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
- An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246
- Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099
- HIGH TEMPERATURE TESTS**
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- HIGH VACUUM**
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- HIGH VACUUM ORBITAL SIMULATOR**
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- HIGH VOLTAGES**
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
- High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
- High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- HIGHWAYS**
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- HINGES**
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
- Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
- HISTOGRAMS**
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
- HISTOLOGY**
Three-dimensional cultured glioma cell lines
[NASA-CASE-MSC-21843-1-NP] c 51 N92-24052
- HOLDERS**
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
- Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
- Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
- Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
- Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545
- Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196
- System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584
- Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N92-29092
- Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N92-29138
- Fingered bola body, bola with same, and methods of use
[NASA-CASE-MSC-21967-1] c 37 N92-30026
- HOLE DISTRIBUTION (MECHANICS)**
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- HOLE GEOMETRY (MECHANICS)**
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
- HOLE MOBILITY**
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
- HOLES (MECHANICS)**
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
- Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

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Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513

HOLLOW CATHODES

Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

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[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

HOLOGRAPHIC INTERFEROMETRY

Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202

HOLOGRAPHY

Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N92-10186
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

HOMING DEVICES
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

HONEYCOMB CORES
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541

HONEYCOMB STRUCTURES
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540

Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

HOOKS

Fingered bola body, bola with same, and methods of use
[NASA-CASE-MSC-21967-1] c 37 N92-30026

HOOP COLUMN ANTENNAS

Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

HOPPERS

Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

HORIZON SCANNERS

Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

HORIZONTAL SPACECRAFT LANDING

Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

HORIZONTAL TAIL SURFACES

Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

HORN ANTENNAS

Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

HOSES

Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

HOT CATHODES

Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

HOT CORROSION

Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

HOT ISOSTATIC PRESSING

One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

HOT PRESSING

Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

HOT WORKING

Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

HOT-FILM ANEMOMETERS

Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

HOT-WIRE ANEMOMETERS

Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

HOT-WIRE FLOWMETERS

Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

HOUSINGS

Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018
Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N92-33030
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032

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Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

HUBBLE SPACE TELESCOPE

System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817

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Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

HUGONIOT EQUATION OF STATE

Determining particle density using known material Hugoniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810

HULLS (STRUCTURES)

Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305

HUMAN BEINGS

Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

HUMAN BODY

Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

- Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
- Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
- HUMAN FACTORS ENGINEERING**
- Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
- Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
- Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
- Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
- Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
- EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
- Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
- Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
- Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N89-29953
- Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714
- HUMAN PERFORMANCE**
- Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- HUMAN REACTIONS**
- Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114
- Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256
- HUMAN WASTES**
- Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
- Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
- Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
- HUMIDITY**
- Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- HUMIDITY MEASUREMENT**
- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- HYBRID CIRCUITS**
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
- Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941
- HYBRID COMPUTERS**
- Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
- HYBRID PROPELLANTS**
- Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
- HYDRAULIC CONTROL**
- Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
- Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
- Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
- HYDRAULIC EQUIPMENT**
- Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
- Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
- Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
- Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
- Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
- Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
- Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
- Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
- Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
- Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
- Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
- HYDRAULIC FLUIDS**
- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- HYDRAULIC JETS**
- Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
- HYDRAZIDES**
- Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141
- HYDRAZINE ENGINES**
- Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
- HYDRAZINE NITROFORM**
- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- HYDRAZINES**
- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
- A process for preparing 1,3-diamino-5-pentafluorosulfanylbenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
- HYDRIDES**
- Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
- HYDROCARBON COMBUSTION**
- In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- HYDROCARBON FUEL PRODUCTION**
- Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- HYDROCARBON FUELS**
- Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
- Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
- Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
- HYDROCARBONS**
- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
- Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
- Some 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
- Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
- HYDROCHLORIC ACID**
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- HYDROCHLORIDES**
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- HYDRODYNAMICS**
- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
- Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
- Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
- HYDROFOILS**
- Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
- HYDROFORMING**
- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- HYDROGEN**
- Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

- Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
- Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
- Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MS-C-16777-1] c 51 N80-27067
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- Static feed water electrolysis subsystem development
[NASA-CASE-MS-C-21577-1-SB] c 25 N91-23271
- HYDROGEN ATOMS**
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
- Atomic hydrogen storage --- cryotraping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- HYDROGEN EMBRITTLEMENT**
- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- HYDROGEN ENGINES**
- Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
- HYDROGEN FUELS**
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
- Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
- HYDROGEN IONS**
- Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- HYDROGEN OXYGEN FUEL CELLS**
- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- HYDROGEN PEROXIDE**
- Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- HYDROGEN PRODUCTION**
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- HYDROGENATION**
- Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
- Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
- HYDROLOGY**
- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- HYDROLYSIS**
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MS-C-21936-1] c 25 N92-19486
- HYDROSTATIC PRESSURE**
- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-C-20202-1] c 54 N84-16803
- HYDROSTATICS**
- Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
- HYDROXIDES**
- Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- HYDROXYL COMPOUNDS**
- Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
- HYGIENE**
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MS-C-18381-1] c 52 N81-28740
- Regenerable biocide delivery unit
[NASA-CASE-MS-C-21763-1] c 51 N91-25570
- HYGROMETERS**
- Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- HYGROSCOPICITY**
- Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
- HYOSCINE**
- Intranasal scopolamine preparation and method
[NASA-CASE-MS-C-21858-1] c 52 N92-11628
- HYPERCUBE MULTIPROCESSORS**
- Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
- Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MS-C-21348-1] c 62 N91-14769
- HYPERFINE STRUCTURE**
- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- HYPERGOLIC ROCKET PROPELLANTS**
- Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
- Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
- HYPERSONIC AIRCRAFT**
- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- HYPERSONIC FLIGHT**
- Hyperersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- HYPERSONIC FLOW**
- Hyperersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- HYPERSONIC SPEED**
- Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
- Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
- HYPERSONIC VEHICLES**
- Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
- HYPERSONIC WIND TUNNELS**
- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
- Pilot-pressure probe for measuring pressure in a hypersonic wind tunnel
[NASA-CASE-LAR-14232-1] c 09 N92-34213
- HYPERTHERMIA**
- Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
- HYPERVELOCITY GUNS**
- Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
- Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
- Collapsible pistons
[NASA-CASE-MS-C-13789-1] c 11 N73-32152
- Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084
- HYPERVELOCITY IMPACT**
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- Hypervelocity impact shield
[NASA-CASE-MS-C-21420-1] c 18 N92-15114
- HYPERVELOCITY PROJECTILES**
- Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
- Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
- Ablative shielding for hypervelocity projectiles
[NASA-CASE-MS-C-21884-1] c 27 N92-30539
- HYPERVELOCITY WIND TUNNELS**
- Hyperersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
- Hyperersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- HYSTERESIS**
- Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- ICE**
- Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
- IDENTIFYING**
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- IGNITERS**
- Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
- Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-C-25707-1] c 35 N85-29214
- IGNITION**
- Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MS-C-20622-1] c 25 N86-19413
- Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
- Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196
- IGNITION LIMITS**
- High voltage pulse generator Patent
[NASA-CASE-MS-C-12178-1] c 09 N71-13518
- IGNITION SYSTEMS**
- Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
- Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
- Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- IGNITION TEMPERATURE**
- Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
- ILLUMINATING**
- EMU helmet mounted display
[NASA-CASE-MS-C-21460-1] c 54 N91-13879
- ILLUMINATORS**
- Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
- Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
- IMAGE ANALYSIS**
- Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305

- Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
- IMAGE CONTRAST**
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
- IMAGE CONVERTERS**
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841
- IMAGE CORRELATORS**
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
- IMAGE DISSECTOR TUBES**
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
- IMAGE ENHANCEMENT**
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
- IMAGE FILTERS**
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951
- IMAGE INTENSIFIERS**
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
- IMAGE PROCESSING**
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1-CU] c 60 N89-26400
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-2] c 82 N92-23550
Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129
Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951
- IMAGE RECONSTRUCTION**
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563
- IMAGE RESOLUTION**
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951
- IMAGE ROTATION**
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- IMAGE TUBES**
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
- IMAGERY**
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Atmospheric autostereoscopic imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769
- IMAGES**
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- IMAGING RADAR**
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
- IMAGING SPECTROMETERS**
Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
- IMAGING TECHNIQUES**
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N92-16563
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135
Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154
Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951
Programmable hyperspectral image mapper with on-array processing
[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104
Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N92-30312
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012
- IMIDES**
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347

- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
- Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
- N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
- Polyimide processing additives
[NASA-CASE-LAR-13669-1] c 27 N92-29157
- Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792
- IMINES**
- Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- IMMOBILIZATION**
- Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
- IMPACT**
- Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
- IMPACT ACCELERATION**
- Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- IMPACT DAMAGE**
- Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
- IMPACT LOADS**
- Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
- IMPACT RESISTANCE**
- Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- IMPACT STRENGTH**
- High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- IMPACT TESTING MACHINES**
- Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- IMPACT TESTS**
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- IMPACT TOLERANCES**
- High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
- IMPEDANCE**
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
- Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
- Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
- IMPEDANCE MATCHING**
- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
- Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
- IMPEDANCE MEASUREMENT**
- High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- IMPELLERS**
- Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
- IMPLANTATION**
- Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- IMPLANTED ELECTRODES (BIOLOGY)**
- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- IMPROSIONS**
- Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
- IMPREGNATING**
- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
- Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374
- IMPULSE GENERATORS**
- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
- IMPURITIES**
- Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
- IN-FLIGHT MONITORING**
- System for use in conducting wake investigation for a wing in flight — differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- INCIDENCE**
- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
- INCIDENT RADIATION**
- Solar cell assembly — for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
- INCLINATION**
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- INCLUSIONS**
- Method and apparatus for thermographically and quantitatively analyzing a structure for disbands and/or inclusions
[NASA-CASE-LAR-14559-1] c 38 N92-29829
- INCOHERENT SCATTERING**
- Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
- INDICATING INSTRUMENTS**
- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
- Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
- Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
- Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790
- INDIUM ALLOYS**
- Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
- INDIUM COMPOUNDS**
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- INDUCED DRAG**
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
- INDUCTANCE**
- Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
- Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
- Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
- INDUCTION**
- Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- INDUCTION HEATING**
- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- Induction boiler
[NASA-CASE-MFS-28634-1] c 37 N92-24055
- Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14679-2] c 32 N92-31150
- Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14418-1] c 32 N92-31257
- INDUCTION MOTORS**
- Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
- Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
- Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376

- Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

INDUCTORS

- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

INDUSTRIAL PLANTS

- Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457

INDUSTRIAL WASTES

- Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Hazardous materials emergency response mobile robot
[NASA-CASE-NPO-18690-1-CU] c 37 N92-34205

INERT ATMOSPHERE

- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

INERTIA

- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

INERTIAL CONFINEMENT FUSION

- Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

INERTIAL GUIDANCE

- Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243

INERTIAL NAVIGATION

- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N92-21999

INERTIAL PLATFORMS

- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

INERTIAL REFERENCE SYSTEMS

- Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098

INFLATABLE SPACECRAFT

- Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

INFLATABLE STRUCTURES

- Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Pneumatic inflatable and effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

INFORMATION RETRIEVAL

- Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860

INFORMATION SYSTEMS

- Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860

INFORMATION THEORY

- Dynamic pattern matcher using incomplete data
[NASA-CASE-MSC-21415-1-SB] c 61 N92-17860

INFRARED DETECTORS

- Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588

Laterally stacked Schottky diodes for infrared sensor applications

- [NASA-CASE-NPO-17426-1-CU] c 33 N91-21434

INFRARED IMAGERY

- Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N92-30312

INFRARED INSTRUMENTS

- Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

INFRARED INTERFEROMETERS

- Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

INFRARED LASERS

- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

INFRARED PHOTOMETRY

- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

INFRARED RADIATION

- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589
Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
Off-surface infrared flow visualization
[NASA-CASE-LAR-14568-1] c 74 N92-30312

INFRARED REFLECTION

- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

INFRARED SCANNERS

- Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

INFRARED SPECTRA

- Diatom infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048

INFRARED SPECTROMETERS

- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

INFRARED SPECTROSCOPY

- Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

INFRARED TELESCOPES

- Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

INFRASONIC FREQUENCIES

- Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

INHIBITORS

- Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

INITIATORS (EXPLOSIVES)

- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

INJECTION

- Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

INJECTION LASERS
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

INJECTORS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054

INKS
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

INLET FLOW
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

INLET NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

INLET PRESSURE
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

INOCULATION
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

INORGANIC COATINGS
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

INORGANIC COMPOUNDS
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES

Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

INPUT

Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

INPUT/OUTPUT ROUTINES

Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345

INSERTION

Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS

Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSERTS

Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175
Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354

INSPECTION

Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

INSTALLING

Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

INSTRUMENT COMPENSATION

Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

INSTRUMENT ERRORS

Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

INSTRUMENT ORIENTATION

Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES

Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

INSTRUMENTS

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752

Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

INSULATED STRUCTURES
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

INSULATION
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

INSULATORS
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Process for lowering the dielectric constant of polyimides using diamine acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389

INTAKE SYSTEMS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

INTEGERS
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

INTEGRATED CIRCUITS

Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897

Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717

Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464

Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205

Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MS-13907-1] c 10 N73-26230

Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112

Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638

Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MS-12420-1] c 33 N75-14957

Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395

Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552

High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841

Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245

Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542

INTEGRATED OPTICS
Electro-optic resonant phase modulator
[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551

INTEGRATORS
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520

Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

INTEGRITY
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541

INTERCALATION
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025

Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208

INTERFACES
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

Expandable pallet for space station interface attachments
[NASA-CASE-MS-21117-1] c 18 N88-28958

Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384

Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MS-21211-1] c 18 N89-28553

Expandable pallet for space station interface attachments
[NASA-CASE-MS-21117-2] c 18 N89-28554

Printer port interface
[NASA-CASE-LAR-13950-1] c 60 N92-30541

INTERFACIAL TENSION
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578

Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

INTERFERENCE FIT
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

INTERFEROMETERS
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627

Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694

Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463

High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490

Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563

Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888

Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963

Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448

Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949

Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

INTERFEROMETRY
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133

INTERLAYERS
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

INTERMEDIATE FREQUENCY AMPLIFIERS
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321

INTERMETALLICS
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752

Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482

INTERNAL COMBUSTION ENGINES
Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MS-12139-1] c 28 N71-14058

Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772

System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457

Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497

Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526

Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345

Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374

Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MS-18807-1] c 37 N83-36483

Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559

Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981

Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

INTERNAL PRESSURE
Pressure vessel flex joint
[NASA-CASE-MS-21748-1] c 37 N92-21727

INTERPLANETARY SPACE
Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344

RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

INTERPLANETARY SPACECRAFT
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075

INTERPLANETARY TRAJECTORIES
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

INTERPOLATION
Two dimensional vernier
[NASA-CASE-MS-21700-1] c 35 N92-22039

INTERPROCESSOR COMMUNICATION
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

INTERVALS
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

INTRACRANIAL PRESSURE

- Induction powered biological radiophone
[NASA-CASE-ARC-11120-1] c 52 N80-18691

INTRAOCULAR PRESSURE

- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

INTRA-VEHICULAR ACTIVITY

- Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

INTRAVENOUS PROCEDURES

- Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Intranasal scopolamine preparation and method
[NASA-CASE-MSC-21858-1] c 52 N92-11628

INTRUSION

- Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

INVENTIONS

- Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
Improving the performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N91-28444
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N92-25399
Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137
Polyimides containing the cyclobutene-3,4-dione moiety
[NASA-CASE-LAR-14753-1] c 27 N92-30313
Quick acting gimbal joint
[NASA-CASE-MSC-21918-1] c 37 N92-30316
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031
- INVERTED CONVERTERS (DC TO AC)**
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

INVERTERS

- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

INVESTIGATION

- Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835

IODINE

- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206

IODINE COMPOUNDS

- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

IODINE ISOTOPES

- Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

ION ACCELERATORS

- Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959

ION BEAMS

- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ION CHARGE

- Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

ION CONCENTRATION

- Deposition of alloy films --- on irregular shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270

ION CURRENTS

- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

ION CYCLOTRON RADIATION

- Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

ION DENSITY (CONCENTRATION)

- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

ION ENGINES

- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203

Apparatus for increasing ion engine beam density

- Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

ION EXCHANGE MEMBRANE ELECTROLYTES

- Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ION EXCHANGE RESINS

- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

ION EXCHANGING

- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

ION EXTRACTION

- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

ION IMPLANTATION

- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389

ION IRRADIATION

- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

ION MOTION

- Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

ION PLATING

- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

ION PROBES

- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

ION PROPULSION

- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
- Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
- Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

ION PUMPS

- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

ION SOURCES

- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
- High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
- Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ION TRAPS (INSTRUMENTATION)

- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

IONIC MOBILITY

- Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

IONIZATION

- Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

- Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

IONIZATION CHAMBERS

- Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
- A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464

IONIZATION CROSS SECTIONS

- Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

IONIZATION GAGES

- Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391

IONIZATION POTENTIALS

- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

IONIZED GASES

- Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N92-33030

IONIZERS

- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

IONIZING RADIATION

- High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

IONOSPHERIC DISTURBANCES

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC ELECTRON DENSITY

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC SOUNDING

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONS

- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

IRIDIUM

- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

IRISES (MECHANICAL APERTURES)

- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

IRON

- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

IRON ALLOYS

- Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
- Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

IRON CHLORIDES

- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

IRON COMPOUNDS

- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

IRRADIATION

- Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
- Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Method of measuring field tunneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
- Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N92-33015

IRRIGATION

- Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

ISOLATION

- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
- Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954

ISOLATORS

- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
- Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954

ISOPROPYL ALCOHOL

- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

ISOPROPYL COMPOUNDS

- Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676

ISOTHERMAL LAYERS

- Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

ISOTHERMAL PROCESSES

- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

ISOTOPE SEPARATION

- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

J

JACOBI MATRIX METHOD

- Configuration control of seven-degree-of-freedom arms
[NASA-CASE-NPO-18607-1-CU] c 37 N92-23553

JET AIRCRAFT

- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

JET AIRCRAFT NOISE

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
- Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

JET AMPLIFIERS

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741

JET BLAST EFFECTS

- Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

JET CONTROL

- Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

JET ENGINES

- Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
- Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
- Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
- Stator rotor tools
[NASA-CASE-MS-C-16000-1] c 37 N78-24544
- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

JET EXHAUST

- Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

JET FLAPS

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

JET FLOW

- Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
- System for venting gas from a liquid storage tank
[NASA-CASE-MS-C-21253-1] c 31 N90-20254

JET MIXING FLOW

- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

JET NOZZLES

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

JET PROPULSION

- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

JET PUMPS

- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

JET THRUST

- Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582

- Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
- Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
- Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

JETTISON SYSTEMS

- Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
- Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

JIGS

- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554

JOINING

- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

JOINTS (ANATOMY)

- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
- Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
- Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866

JOINTS (JUNCTIONS)

- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
- Technique of elbow bending small jacketed transfer lines
[NASA-CASE-XNP-10475] c 15 N71-24679
- Method and apparatus for precision sizing and joining of large diameter tubes
[NASA-CASE-XMF-05114-2] c 15 N71-26148
- Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
- Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
- Flexible joint for pressurizable garment
[NASA-CASE-MS-C-11072] c 54 N74-32546
- Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326

- Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MS-C-18134-1] c 37 N81-15363
- Reusable captive blind fastener
[NASA-CASE-MS-C-18742-1] c 37 N82-26673
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732

- Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Fluid leak indicator
[NASA-CASE-MS-C-20783-1] c 35 N86-20756
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
- Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
- Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
- Foldable self-erecting joint
[NASA-CASE-ARC-20635-1] c 18 N87-14373
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
- Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
- Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
- Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
- Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
- Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
- Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
- A method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859
- Pressure vessel flex joint
[NASA-CASE-MS-C-21748-1] c 37 N92-21727
- Double-V block fingers with cruciform recess
[NASA-CASE-GSC-13356-1] c 37 N92-24243
- Bladder operated robotic joint
[NASA-CASE-MFS-28682-1] c 27 N92-29831
- Quick acting gimbal joint
[NASA-CASE-MS-C-21918-1] c 37 N92-30316
- Method and apparatus for preloading a joint by remotely operable means
[NASA-CASE-MS-C-21940-1] c 37 N92-30540
- Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031
- Flexible robotic arm
[NASA-CASE-GSC-13161-1] c 37 N92-33634

JOSEPHSON JUNCTIONS

- Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602
- An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

JOULE-THOMSON EFFECT

- Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
- Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203

JOURNAL BEARINGS

- Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
- Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
- Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
- Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

JUNCTION DIODES

- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399

JUNCTION TRANSISTORS

- Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N89-24318
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Floating emitter solar cell
[NASA-CASE-NPO-16467-1CU] c 33 N87-23879

K

KALMAN FILTERS

- Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1CU] c 33 N89-28713
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1CU] c 32 N90-27016

KETONES

- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1CU] c 27 N87-22847
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2CU] c 23 N89-12667
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1CU] c 23 N91-27220

KEYING

- High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

KIDNEY DISEASES

- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

KIDNEYS

- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

KINEMATICS

- Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1CU] c 37 N91-21544
Configuration control of seven-degree-of-freedom arms
[NASA-CASE-NPO-18607-1CU] c 37 N92-23553

KINETIC ENERGY

- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

KINETIC FRICTION

- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

KINETICS

- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

KNEE (ANATOMY)

- Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866

KNOWLEDGE REPRESENTATION

- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741

KRAFT PROCESS (WOODPULP)

- Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

KRYPTON

- Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917

L

LABORATORY EQUIPMENT

- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Variable angle tube holder
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Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313

Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145

Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091

Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652

Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653

Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427

Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848

Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549

Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929

Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944

Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065

Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862

Three-dimensional laser velocimeter simultaneously detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340

Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392

Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810

Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133

Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154

LASING

Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

LATCHES

Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601

Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190

Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649

Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076

Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897

Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162

Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903

Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685

Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499

Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678

Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357

CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732

Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791

Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969

Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493

Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561

J-hook latching device
[NASA-CASE-GSC-13200-1] c 37 N92-21500

Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N92-23378

Retractable tool bit having slider type catch mechanism
[NASA-CASE-GSC-13358-1] c 37 N92-24058

LATERAL CONTROL

Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581

Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108

Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LATERAL STABILITY

Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LATEX

Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261

Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

LATHES

Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

Lathe tool bit and holder for machining fibreglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489

Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831

LAUNCH ESCAPE SYSTEMS

- Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

LAUNCH VEHICLE CONFIGURATIONS

- Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

LAUNCH VEHICLES

- A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013

LAUNCHERS

- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

LAUNCHING PADS

- Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

LAY-UP

- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

LAYERS

- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

LEACHING

- Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465

LEAD (METAL)

- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

LEAD SULFIDES

- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

LEAD TELLURIDES

- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037

LEADING EDGE FLAPS

- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

LEADING EDGES

- Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

LEAKAGE

- Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

- Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

LEAST SQUARES METHOD

- Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

LEG (ANATOMY)

- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

LENGTH

- Conductive gage for crack length measurement
[NASA-CASE-LAR-14480-1-CU] c 39 N92-11374

LENSES

- High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N92-28755
Polarization perception device
[NASA-CASE-MSC-21915-1] c 74 N92-30027

LENTICULAR BODIES

- Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924

LEVEL (HORIZONTAL)

- Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

LEVEL (QUANTITY)

- Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188

LEVELING

- Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968

LEVERS

- Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493

LEVITATION

- Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099

LEVITATION MELTING

- High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

LIFE (DURABILITY)

- Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

LIFE DETECTORS

- Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

LIFE RAFTS

- Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845

LIFE SUPPORT SYSTEMS

- Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269

Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MS-21629-1] c 54 N91-31803

LIFT
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

LIFT DEVICES
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

LIFT DRAG RATIO
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

LIFTING BODIES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

LIFTING REENTRY VEHICLES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

LIFTING ROTORS
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

LIGANOS
Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

LIGHT (VISIBLE RADIATION)
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Light transmitting window assembly
[NASA-CASE-MS-18417-1] c 74 N85-29750
Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336

LIGHT AIRCRAFT
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110

LIGHT BEAMS
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810

LIGHT EMISSION
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

LIGHT EMITTING DIODES
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871

LIGHT GAS GUNS
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

LIGHT MODULATION
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808
Optical inner product neural associative memory
[NASA-CASE-NPO-18491-1-CU] c 60 N92-23546
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022

LIGHT SCATTERING
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253
Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N92-33028

LIGHT SCATTERING METERS
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

LIGHT SOURCES
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Ultrastable calibrated light source
[NASA-CASE-MS-12293-1] c 14 N72-27411
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089

Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

LIGHT TRANSMISSION
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Light transmitting window assembly
[NASA-CASE-MS-18417-1] c 74 N85-29750
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957
Polarization perception device
[NASA-CASE-MS-21915-1] c 74 N92-30027

LIGHT VALVES
Liquid crystal light valve structures
[NASA-CASE-MS-20036-1] c 76 N85-33826
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LIGHTING EQUIPMENT
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032

LIGHTNING
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

LIMBS (ANATOMY)
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Apparatus for determining changes in limb volume
[NASA-CASE-MS-18759-1] c 52 N83-27578

LIMITER CIRCUITS
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

LINE OF SIGHT

EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

LINE SPECTRA

Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679

LINEAR ACCELERATORS

Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

LINEAR ARRAYS

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

LINEAR CIRCUITS

Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

LINEAR INTEGRATED CIRCUITS

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

LINEAR POLARIZATION

Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

LINEAR PROGRAMMING

Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

LINEAR RECEIVERS

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

LINEAR SYSTEMS

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

LINEARITY

Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

LININGS

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Combustor liner construction
[NASA-CASE-LEW-14033-1] c 07 N84-24577
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586

LINKAGES

Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117

Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Quick acting gimbal joint
[NASA-CASE-MSC-21918-1] c 37 N92-30316

LIQUEFACTION

Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

LIQUID ATOMIZATION

Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

LIQUID BEARINGS

High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Turbomachinery rotor support with damping
[NASA-CASE-MSC-28345-1] c 37 N91-14608

LIQUID CHROMATOGRAPHY

Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

LIQUID COOLING

Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Liquid cooled brasserie and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586

LIQUID CRYSTALS

Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
A shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1] c 39 N92-30317
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022

LIQUID FILLED SHELLS

Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

LIQUID FLOW

Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492

Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
Degassing and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

LIQUID HELIUM

Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Multistage refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Stabilization of He2(a 3 Sigma u+) molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287

LIQUID HYDROGEN

Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

LIQUID INJECTION

Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

LIQUID LASERS

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

LIQUID LEVELS

Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500

LIQUID METALS

Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-NPO-08881] c 17 N71-28747
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573

Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

LIQUID NITROGEN
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484

LIQUID OXYGEN
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

LIQUID PHASES
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

LIQUID PROPELLANT ROCKET ENGINES
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013

LIQUID ROCKET PROPELLANTS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188

Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054
Method for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N92-15122

LIQUID SLOSHING
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

LIQUID SODIUM
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

LIQUID-GAS MIXTURES
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269

LIQUID-SOLID INTERFACES
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

LIQUID-VAPOR INTERFACES
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

LIQUIDS
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12485-1] c 33 N82-26572
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

LITHIUM

Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen
[NASA-CASE-LEW-14973-1] c 44 N92-10222
Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753

LITHIUM ALLOYS
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

LITHIUM COMPOUNDS
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

LOAD DISTRIBUTION (FORCES)
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384

LOAD TESTING MACHINES
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584
Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099

LOAD TESTS
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028
Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099

LOADING OPERATIONS
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

LOADS (FORCES)
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432

Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959

Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451

Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288

Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463

Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941

Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129

Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499

Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712

Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539

Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655

Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185

Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384

Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007

Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866

Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028

Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387

LOCAL AREA NETWORKS
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

LOCATES SYSTEM
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

LOCKING
Coupling device
[NASA-CASE-MFS-07846-1] c 09 N69-21927

Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401

Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619

Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610

System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561

Automatic locking orthotic knee device
[NASA-CASE-MFS-28633-1] c 54 N92-17866

Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728

Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N92-29092

Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-29150

LOCKS (FASTENERS)

Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829

Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537

Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928

Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914

Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494

Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180

LOCOMOTION
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910

LOGARITHMIC RECEIVERS
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

LOGARITHMS
Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

LOGIC CIRCUITS
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423

Analog-to-digital conversion system Patent
[NASA-CASE-XLA-00404] c 08 N70-40125

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602

Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650

BCD to decimal decoder Patent
[NASA-CASE-KKS-06167] c 08 N71-24890

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103

Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310

Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

Reconfigurable fuzzy cell
[NASA-CASE-MSC-21613-1] c 61 N92-10331

Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057

LOGIC PROGRAMMING
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

LONGERONS
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791

Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

LONGITUDINAL CONTROL
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581

Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152

Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LONGITUDINAL STABILITY
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LOOK ANGLES (ELECTRONICS)
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

LOOP ANTENNAS
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202

Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113

LOOPS
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647

Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609

Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865

Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626

Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302

Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

LOUDNESS
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

LOUVERS
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

LOW ASPECT RATIO

- Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

LOW CONDUCTIVITY

- High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

LOW COST

- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1CU] c 62 N92-15620

LOW CURRENTS

- Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

LOW DENSITY MATERIALS

- Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

LOW FREQUENCIES

- Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1CU] c 14 N91-28184

LOW GRAVITY MANUFACTURING

- Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1CU] c 29 N87-25489
Macromolecular crystal growing system
[NASA-CASE-MFS-26088-1CU] c 76 N92-25398

LOW MOLECULAR WEIGHTS

- Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807

LOW NOISE

- Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1CU] c 33 N88-26596

LOW PASS FILTERS

- Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1CU] c 32 N92-21712

- Position-error-based force reflection and compliance control
[NASA-CASE-NPO-18668-1CU] c 37 N92-29765

LOW PRESSURE

- Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 N92-34214

LOW SPEED

- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Helicopter low-speed yaw control
[NASA-CASE-LAR-14219-1] c 08 N92-30025

LOW TEMPERATURE

- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
Sub-Kelvin resistance thermometer
[NASA-CASE-GSC-13406-1] c 35 N92-33614

LOW TEMPERATURE ENVIRONMENTS

- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

LOW TEMPERATURE TESTS

- Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

LOW THRUST

- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

LOW VACUUM

- Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673

LOW VOLTAGE

- High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

LOWER BODY NEGATIVE PRESSURE

- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

LUBRICANTS

- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

LUBRICATING OILS

- Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

LUBRICATION

- Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423

LUBRICATION SYSTEMS

- Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048

- Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

LUGS

- Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889

LUMINAIRES

- Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

LUMINANCE

- Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

LUMINESCENCE

- Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158
A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389

LUMINOSITY

- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

LUMINOUS INTENSITY

- Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LUMPING

- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

LUNAR BASES

- Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

LUNAR COMMUNICATION

- Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR COMPOSITION

- Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765

LUNAR EXPLORATION

- Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR GRAVITATION

- Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

LUNAR GRAVITY SIMULATOR

- Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

LUNAR LANDING

- Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966

LUNAR LOGISTICS

- Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

LUNAR ROCKS

- Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

LUNAR ROVING VEHICLES

- Method for remotely powering a device such as a lunar rover
[NASA-CASE-LAR-14789-1] c 37 N92-30388

LUNAR SOIL

- Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

LUNAR SURFACE

- Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589

LUNAR SURFACE VEHICLES

- Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

LUNGS

- Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

M

MACH NUMBER

- Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175

MACHINE LEARNING

- An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730
Fast temporal neural learning using teacher forcing
[NASA-CASE-NPO-18553-1-CU] c 63 N92-30085
Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240

MACHINE TOOLS

- Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480
Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
- MACHINERY**
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

MACHINING

- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
- MACROMOLECULES**
Macromolecular crystal growing system
[NASA-CASE-MFS-26088-1-CU] c 76 N92-25398
- MAGNESIUM**
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM ALLOYS

- Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM OXIDES

- Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

MAGNET COILS

- Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

MAGNETIC AMPLIFIERS

- Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

MAGNETIC BEARINGS

- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099

MAGNETIC CHARGE DENSITY

- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC CIRCUITS

- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC COILS

- Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

MAGNETIC CONTROL

- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151

MAGNETIC CORES

- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604

- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Drive circuit utilizing two cores Patent
[NASA-CASE-NPO-01318] c 10 N71-23033
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N92-33018
- MAGNETIC DIPOLES**
Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
- MAGNETIC DISKS**
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
- MAGNETIC FIELD CONFIGURATIONS**
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
- MAGNETIC FIELDS**
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335

Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

Atomic magnetic storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973

Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866

Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081

Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130

MAGNETIC FILMS
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC FLUX
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423

Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon
Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

Hybrid lubrication system and bearing
Patent
[NASA-CASE-XNP-01641] c 15 N71-22997

Saturation current protection apparatus for saturable core transformers
Patent
[NASA-CASE-ERC-10075] c 09 N71-24800

Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516

Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361

Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574

Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421

Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC FORMING
Magnetomotive metal working device
Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

Method and apparatus for precision sizing and joining of large diameter tubes
Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865

MAGNETIC INDUCTION
Continuously operating induction plasma accelerator
Patent
[NASA-CASE-XLA-01354] c 25 N70-36946

Drive circuit for minimizing power consumption in inductive load
Patent
[NASA-CASE-NPO-10716] c 09 N71-24892

Constant frequency output two stage induction machine systems
Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973

Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757

Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101

Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

MAGNETIC LENSES

Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

MAGNETIC MATERIALS

Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles
Patent
[NASA-CASE-XLE-01512] c 12 N70-40124

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

MAGNETIC MEASUREMENT

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423

Wide range linear fluxgate magnetometer
Patent
[NASA-CASE-XGS-01587] c 14 N71-15962

RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130

MAGNETIC PERMEABILITY

Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

MAGNETIC POLES

Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

MAGNETIC PROPERTIES

Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757

Precision measurement of magnetic characteristics of an article with nullification of external magnetic fields
[NASA-CASE-NPO-18187-1-CU] c 70 N92-29130

MAGNETIC PUMPING

Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516

Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361

Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904

Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

MAGNETIC RECORDING

Incremental tape recorder and data rate converter
Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

Magnetic recording head and method of making same
Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210

Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132

MAGNETIC SIGNALS

Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

MAGNETIC STORAGE

Binary magnetic memory device
Patent
[NASA-CASE-XGS-00174] c 08 N70-34743

Magnetic matrix memory system
Patent
[NASA-CASE-XMF-05835] c 08 N71-12504

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads
Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

Redundant memory organization
Patent
[NASA-CASE-GSC-10564] c 10 N71-29135

Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

MAGNETIC SUSPENSION

Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372

Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539

Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824

MAGNETIC SWITCHING

Magnetic power switch
Patent
[NASA-CASE-NPO-10242] c 09 N71-24803

Current steering switch
Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862

MAGNETIC TAPE TRANSPORTS

Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479

MAGNETIC TAPES

Endless tape cartridge
Patent
[NASA-CASE-XGS-00769] c 14 N70-41647

Endless tape transport mechanism
Patent
[NASA-CASE-XGS-01223] c 07 N71-10609

Low friction magnetic recording tape
Patent
[NASA-CASE-XGS-00373] c 23 N71-15978

System for recording and reproducing pulse code modulated data
Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Friction measuring apparatus
Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612

Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

MAGNETIC TRANSDUCERS

Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

MAGNETIZATION

Ion engine casing construction and method of making same
Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

MAGNETO-OPTICS

Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205

MAGNETOACOUSTIC WAVES

Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

MAGNETOACOUSTICS

Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757

Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101

Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

MAGNETOHYDRODYNAMIC FLOW

Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760

Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

MAGNETOHYDRODYNAMIC GENERATORS

Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929

Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983

Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion
Patent
[NASA-CASE-XNP-00644] c 03 N70-36803

Crossed-field MHD plasma generator/accelerator
Patent
[NASA-CASE-XLA-03374] c 25 N71-15562

Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573

MAGNETOMETERS

Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423

Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon
Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

Wide range linear fluxgate magnetometer
Patent
[NASA-CASE-XGS-01587] c 14 N71-15962

Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system
Patent
[NASA-CASE-XGS-04879] c 14 N71-20428

Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135

Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325

Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

MAGNETOSTRICTION
Magnetostriuctive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331

MAGNETRON SPUTTERING
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

MAGNETRONS
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

MAGNETS
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

MAGNIFICATION
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474

Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437

Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905

Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124

Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594

Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

MAGNITUDE
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAINTENANCE
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489

Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073

Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520

Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736

High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157

MALEATES

Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909

MALFUNCTIONS

Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952

MAMMALS

Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701

MAN MACHINE SYSTEMS

Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714

User friendly joystick
[NASA-CASE-GSC-13187-1] c 33 N92-29153

MANDRELS

Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783

Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687

Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

MANEUVERABILITY

Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

MANGANESE

Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MANIFOLDS

Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710

Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305

Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054

MANIPULATORS

Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495

Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616

Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041

Cooperative multi-axis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758

Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457

Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460

Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721

Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676

Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652

Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551

Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320

Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731

Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603

Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817

Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828

Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398

Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842

Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866

Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750

Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408

Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615

Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616

Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885

Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509

A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

Controlling flexible robot arms using a high speed dynamics process
[NASA-CASE-NPO-18499-1-CU] c 37 N92-24042

Controlling under-actuated robot arms using a high speed dynamics process
[NASA-CASE-NPO-18498-1-CU] c 37 N92-24043

Robot serviced space facility
[NASA-CASE-GSC-13408-1] c 18 N92-24244

Position-error-based force reflection and compliance control
[NASA-CASE-NPO-18668-1-CU] c 37 N92-29765

Page turning system
[NASA-CASE-GSC-13415-1] c 37 N92-33616

MANNED ORBITAL LABORATORIES
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

MANNED SPACE FLIGHT
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051

Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492

MANNED SPACECRAFT
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938

Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009

Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15684

Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881

Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933

Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278

MANOMETERS
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820

Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

MANUAL CONTROL
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

- Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
- Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
- Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
- Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
- User friendly joystick
[NASA-CASE-GSC-13187-1] c 33 N92-29153

MANUFACTURING

- A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
- Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
- Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
- Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
- Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
- Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
- Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
- Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
- Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
- Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
- Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14679-2] c 32 N92-31150

MAPPING

- Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
- Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
- Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620
- Programmable hyperspectral image mapper with on-array processing
[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104

MAPS

- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
- Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

MASERS

- Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
- Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521
- Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
- Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
- External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MASKING

- Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
- High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
- Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
- Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427

MASKS

- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

MASS

- Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
- Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385

MASS BALANCE

- Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
- Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755

MASS DISTRIBUTION

- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

MASS FLOW

- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262

MASS SPECTROMETERS

- Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
- Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
- Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857

- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
- Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

MASS SPECTROSCOPY

- Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
- Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

MASSIVELY PARALLEL PROCESSORS

- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378

MATERIAL ABSORPTION

- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

MATERIALS

- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

MATERIALS HANDLING

- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
- Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
- Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
- Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-16679
- Hazardous materials emergency response mobile robot
[NASA-CASE-NPO-18690-1-CU] c 37 N92-34205

MATERIALS RECOVERY

- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

MATERIALS SCIENCE

- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486

MATERIALS TESTS

- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
- Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913

- Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
- Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936
- Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155
- MATHEMATICAL LOGIC**
- Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209
- MATHEMATICAL MODELS**
- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
- Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
- MATRICES (CIRCUITS)**
- Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
- Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
- Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
- Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
- High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
- MATRICES (MATHEMATICS)**
- Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918
- An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730
- Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884
- MATRIX MATERIALS**
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- Polyarylene ethers with improved properties
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Stirring apparatus for plural test tubes Patent
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Nonmagnetic, explosive actuated indexing device Patent
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Mechanical actuator Patent
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Winch having cable position and load indicators Patent
[NASA-CASE-MS-C-12052-1] c 15 N71-24599

Redundant actuating mechanism Patent
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Collapsible structure for an antenna reflector
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Foot pedal operated fluid type exercising device
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Sprag solenoid brake --- development and operations of electrically controlled brake
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Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
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Woven angle ply fabric and apparatus and method for producing such fabrics
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Welding skate with computerized control Patent
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Reversible motion drive system Patent
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Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959

Boring bar drive mechanism Patent
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Rotary actuator
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Rotary actuator
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Optically actuated two position mechanical mover
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Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
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Geneva mechanism --- including star wheel and driver
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Mechanical thermal motor
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Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
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Hydraulic drain means for servo-systems
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Mechanical sequencer
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Gas turbine engine with convertible accessories
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Wobble gear drive mechanism --- for aerospace environments
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Toggle mechanism for pinching metal tubes
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Base drive for paralleled inverter systems
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Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

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Electrical rotary joint apparatus for large space structures
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Variable speed drive
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Remotely operable peristaltic pump
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Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Mobile remote manipulator vehicle system
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Bidirectional drive and brake mechanism
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Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MS-C-21434-1] c 37 N92-10197

Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331

Retractable tool bit having latch type catch mechanism
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Retractable tool bit having slider type catch mechanism
[NASA-CASE-GSC-13358-1] c 37 N92-24058

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Manual actuator --- for spacecraft exercising machines
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Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201

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[NASA-CASE-XNP-09205] c 14 N71-17657

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[NASA-CASE-XMF-04680] c 15 N71-19489

Hall effect transducer
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Strain gage mounting assembly
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Fluoroether modified epoxy composites
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Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

Polyarylene ethers with improved properties
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Polyphenylquinoxalines containing alkylendioxo groups
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[NASA-CASE-LAR-14188-1] c 27 N90-23545

A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

Silicon containing electroconductive polymers and structures made therefrom
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[NASA-CASE-MS-C-12111-1] c 02 N71-11039

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Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
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[NASA-CASE-LEW-11581-1] c 54 N75-13531

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[NASA-CASE-ARC-11258-1] c 52 N80-33081

Subcutaneous electrode structure
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Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135

Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153

Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078

Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011

Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123

Heat sterilizable patient ventilator
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Medical subject monitoring systems --- multichannel monitoring systems
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Locking mechanism for orthopedic braces
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Readout electrode assembly for measuring biological impedance
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Corneal seal device
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Snap-in compressible biomedical electrode
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Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351

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- Aluminum ion-containing polyimide adhesives
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- Process for improving mechanical properties of epoxy resins by addition of cobalt ions
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[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Preparation of monotelect alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- Heat exchanger and method of making --- rocket lining
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- Method for alleviating thermal stress damage in laminates --- metal matrix composites
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- Method for alleviating thermal stress damage in laminates
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[NASA-CASE-GSC-11425-2] c 76 N75-25730
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- Multilevel metallization method for fabricating a metal oxide semiconductor device
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- Apparatus for producing oxidation protection coatings for polymers
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- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
- Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476
- METAL POWDER**
- Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
- Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
- Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
- Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- METAL SHEETS**
- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
- Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
- Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
- Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
- Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- METAL SHELLS**
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- METAL SPINNING**
- Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
- METAL SPRAYING**
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- METAL STRIPS**
- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
- Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
- High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
- Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
- High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094
- METAL SURFACES**
- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
- Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
- Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
- Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424
- Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N92-25399
- METAL VAPOR LASERS**
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- METAL VAPORS**
- Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
- Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- METAL WORKING**
- Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
- Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
- Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
- Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- METAL-METAL BONDING**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- METALLIC GLASSES**
- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- METALLIZING**
- Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
- Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
- Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542
- METALLOGRAPHY**
- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- METALLOSILOXANE POLYMER**
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

METALLURGY

- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

METALS

- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Convoluted device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N92-25399

METASTABLE STATE

- Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

METEORITE COLLISIONS

- Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

METEORITES

- Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Ablative shielding for hypervelocity projectiles
[NASA-CASE-MSC-21884-1] c 27 N92-30539

METEORITIC DAMAGE

- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

METEOROID HAZARDS

- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

METEOROID PROTECTION

- Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Ablative shielding for hypervelocity projectiles
[NASA-CASE-MSC-21884-1] c 27 N92-30539

METEORIODS

- Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167

METEOROLOGICAL BALLOONS

- Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

METHANE

- Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118

METHYL ALCOHOL

- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

METHYL COMPOUNDS

- Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
The 1-((diorganoxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-((diorganoxyphosphonyl)methyl)-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N92-33015

METHYLENE

- Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

METRIC SPACE

- General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

MICHELSON INTERFEROMETERS

- Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

MICROANALYSIS

- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

MICROBALANCES

- Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

MICROBALLOONS

- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Method and apparatus for producing microshells
[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240

MICROBIOLOGY

- Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

MICROCHANNELS

- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

MICROCRACKS

- System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881

MICROELECTRONICS

- Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947

MICROFIBERS

- Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

MICROFILMS

- Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

MICROGRAVITY APPLICATIONS

- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286
Macromolecular crystal growing system
[NASA-CASE-MFS-26088-1-CU] c 76 N92-25398
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N92-34171

MICROINSTRUMENTATION

- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMETEORITES

- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

MICROMETEORIODS

- Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-11332
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

MICROMETERS

- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMINIATURIZATION

- Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

MICROORGANISMS

- Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046

- Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
- Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- Regenerable biocide delivery unit
[NASA-CASE-MS-C-21763-1] c 51 N91-25570
- Biofilm monitoring coupon system and method of use
[NASA-CASE-MS-C-21585-1] c 51 N91-31755
- MICROPARTICLES**
- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- MICROPHONES**
- Audio signal processor Patent
[NASA-CASE-MS-C-12223-1] c 07 N71-26181
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
- High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
- Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
- Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
- High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017
- Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-33021
- MICROPOROSITY**
- Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MS-C-21487-1] c 25 N92-33009
- MICROPROCESSORS**
- Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
- Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
- Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
- Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-1] c 44 N92-23463
- MICROSCOPES**
- Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
- Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545
- Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135
- MICROSTRIP ANTENNAS**
- Multiple band circularly polarized microstrip antenna
[NASA-CASE-MS-C-18334-1] c 32 N80-32604
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-C-18606-1] c 32 N82-11336
- MICROSTRIP TRANSMISSION LINES**
- Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-C-18606-1] c 32 N82-11336
- Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
- MICROSTRUCTURE**
- Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
- Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
- Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
- MICROTHRUST**
- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
- MICROWAVE AMPLIFIERS**
- Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- MICROWAVE ANTENNAS**
- Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
- Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
- Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
- Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
- Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
- Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
- Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
- Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-C-18606-1] c 32 N82-11336
- MICROWAVE CIRCUITS**
- Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
- Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
- Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
- MICROWAVE COUPLING**
- Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- MICROWAVE EQUIPMENT**
- Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
- Broadband microwave waveguide window
[NASA-CASE-XNP-08880] c 09 N71-24808
- Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
- Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
- Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
- ...umentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373
- Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678
- Miniature modular microwave end-to-end receiver
[NASA-CASE-NPO-18713-1-CU] c 32 N92-30103
- MICROWAVE FILTERS**
- High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
- High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
- MICROWAVE FREQUENCIES**
- Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
- Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
- Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
- MICROWAVE OSCILLATORS**
- Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
- Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
- Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
- MICROWAVE PROBES**
- Coaxial turnstile junction
[NASA-CASE-GSC-13422-1] c 33 N92-23462
- MICROWAVE RADIOMETERS**
- Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
- Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N92-29148
- MICROWAVE REFLECTOMETERS**
- Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
- Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
- MICROWAVE RESONANCE**
- Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
- MICROWAVE SCATTERING**
- Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- MICROWAVE SENSORS**
- Method and apparatus for sensor fusion
[NASA-CASE-MS-C-21334-1] c 32 N91-25317
- MICROWAVE SWITCHING**
- Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
- Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- MICROWAVE TRANSMISSION**
- Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
- Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
- MICROWAVE TUBES**
- Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
- MICROWAVES**
- Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
- Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
- Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
- Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870

Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Doppler radar having phase modulation of both
transmitted and reflected return signals
[NASA-CASE-MS-C-18675-1] c 32 N84-22820
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Apparatus and method for cellulose processing using
microwave pretreatment
[NASA-CASE-MS-C-21936-1] c 25 N92-19486
Coaxial turnstile junction
[NASA-CASE-GSC-13422-1] c 33 N92-23462

MIDAIR COLLISIONS

Apparatus for aiding a pilot in avoiding a midair collision
between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

MILLIMETER WAVES

Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
Millimeter-wave monolithic diode-grid frequency
multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Universal nondestructive mm-wave integrated circuit test
fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
Planar varactor frequency multiplier devices with
blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N92-23464
Monolithic mm-wave phase shifter using optically
activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N92-28571

MILLING (MACHINING)

Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-27272
Method and tool for machining a transverse slot about
a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

MILLING MACHINES

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

MIND (COMPUTERS)

Special purpose parallel computer architecture for
real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

MINERAL DEPOSITS

Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509

MINERAL METABOLISM

Method and system for in vivo measurement of bone
tissue using a two level energy source
[NASA-CASE-MS-C-14276-1] c 52 N77-14737

MINES (EXCAVATIONS)

Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963

MINIATURE ELECTRONIC EQUIPMENT

Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Miniature ingestible telemeter devices to measure
deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

MINIATURIZATION

Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Miniature carbon dioxide sensor and methods
[NASA-CASE-MS-C-13332-1] c 14 N72-21408
Magnetometer with a miniature transducer and
automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

Miniature cyclotron resonance ion source using small
permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724
Reflection oscillators employing series resonant
crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Miniaturization of flight deflection measurement
system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Miniature modular microwave end-to-end receiver
[NASA-CASE-NPO-18713-1-CU] c 32 N92-30103

MINING

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

MINORITY CARRIERS

Method of increasing minority carrier lifetime in silicon
web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

MIRRORS

Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Method and apparatus for stabilizing a gaseous optical
maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Optical range finder having nonoverlapping complete
images
[NASA-CASE-MS-C-12105-1] c 14 N72-21409
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Strain gauge ambiguity sensor for segmented mirror
active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Method for manufacturing mirrors in zero gravity
environment
[NASA-CASE-MS-C-12611-1] c 12 N76-15189
Method of and means for testing a glancing-incidence
mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Spectral slicing X-ray telescope with variable
magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Motion detection, novelty filtering, and target tracking
using an interferometric technique with a GaAs phase
conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Wide acceptance angle, high concentration ratio, optical
collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
Self-collimated unstable resonator semiconductor
laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
Method and apparatus for phasing segmented mirror
arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135

Method for advanced material characterization by laser
induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154
Multispectral variable magnification glancing incidence
x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012

MIS (SEMICONDUCTORS)

Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

MISALIGNMENT

Alignment positioning mechanism
[NASA-CASE-MS-C-21502-1] c 37 N91-21543

MISSILE CONTROL

Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

MISSILE LAUNCHERS

Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043

MISSILE STRUCTURES

Missile rolling tail brake torque system --- simulating
bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

MISSILES

Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

MITOSIS

Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

MIXERS

Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

MIXING

Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
Apparatus for mixing solutions in low gravity
environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

MIXING CIRCUITS

Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141

MIXTURES

Low gravity phase separator
[NASA-CASE-MS-C-14773-1] c 35 N78-12390
Process for producing tris
s(n-methylamino)
methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Preparing composite materials from matrices of
processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Ethynyl terminated imidothioethers and resins
therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

MOBILE COMMUNICATION SYSTEMS

Ground plane interference elimination by passive
element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

MOBILITY

Traveling wave solid state amplifier utilizing a
semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Mobile sampler for use in acquiring samples of terrestrial
atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Controlled method of reducing electrophoretic mobility
of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Polymer-coated surfaces to control surface zeta
potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397
Controlled method of reducing electrophoretic mobility
of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728

MODE TRANSFORMERS

- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
- Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133

MODELS

- Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185

MODEMS

- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

MODES (STANDING WAVES)

- Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086

MODULATION

- Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

MODULATORS

- Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- Electro-optic resonant phase modulator
[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551
- Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N92-29117
- Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154

MODULES

- Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
- Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411

MODULUS OF ELASTICITY

- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

MOIRE EFFECTS

- Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922

MOISTURE

- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

MOISTURE CONTENT

- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

MOISTURE METERS

- Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

MOISTURE RESISTANCE

- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282

MOLDING MATERIALS

- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

MOLDS

- Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

MOLECULAR BEAM EPITAXY

- MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
- Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
- Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
- Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
- Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
- Method of forming silicon structures with selectable optical characteristics
[NASA-CASE-NPO-18625-1-CU] c 76 N92-30102

MOLECULAR BEAMS

- Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

MOLECULAR CHAINS

- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402

MOLECULAR GASES

- Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

MOLECULAR PUMPS

- Omnidirectional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788

- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

MOLECULAR RELAXATION

- Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

MOLECULAR ROTATION

- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

MOLECULAR SPECTRA

- Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

MOLECULAR SPECTROSCOPY

- Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MOLECULAR STRUCTURE

- Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

MOLECULAR WEIGHT

- Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
- Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
- Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
- Processing for maximizing the level of crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-14481-1] c 25 N92-16043
- Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053
- Polyimides via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N92-28751
- Polyimides containing the cyclobutene-3,4-dione moiety
[NASA-CASE-LAR-14753-1] c 27 N92-30313
- Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014

MOLECULES

- Stabilization of He2(a 3 Sigma u+) molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
- Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N81-27372
- Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728

MOLTEN SALT ELECTROLYTES

- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

MOLTEN SALTS

- Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

MOLYBDENUM

- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

MOLYBDENUM CARBIDES

- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

MOLYBDENUM DISULFIDES

- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

MOMENTS OF INERTIA

- Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

MOMENTUM

- Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

MOMENTUM TRANSFER

- Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
- MONATOMIC GASES**
- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- MONITORS**
- Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
- Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
- Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32268
- Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
- Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
- Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
- Noninvasive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
- Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
- Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
- Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952
- Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016
- MONOCHROMATIC RADIATION**
- Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
- Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- MONOCHROMATORS**
- Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
- MONOMERS**
- Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
- Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256

- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
- Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
- Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
- Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953
- A shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1] c 39 N92-30317
- MONOPOLE ANTENNAS**
- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
- MONOPROPELLANTS**
- Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- MONOPULSE ANTENNAS**
- Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
- MONOPULSE RADAR**
- Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
- MONOSTABLE MULTIVIBRATORS**
- Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
- Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
- MORPHOLOGY**
- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- MOSSBAUER EFFECT**
- Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
- Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
- MOTION**
- Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
- MOTION PICTURES**
- Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
- Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

MOTION SICKNESS

- Intranasal scopolamine preparation and method
[NASA-CASE-MSC-21858-1] c 52 N92-11628
- MOTION SIMULATORS**
- Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- MOTION STABILITY**
- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- MOTORS**
- Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
- System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
- Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
- MOUNTING**
- Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
- Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
- Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
- Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
- Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
- Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
- Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
- Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
- Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
- Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
- Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N92-29092
- Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N92-33020
- MOUTH**
- Page turning system
[NASA-CASE-GSC-13415-1] c 37 N92-33616
- MOVING TARGET INDICATORS**
- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
- MULLITES**
- Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
- MULTIBEAM ANTENNAS**
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961
- MULTICHANNEL COMMUNICATION**
- Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012

Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

MULTILAYER INSULATION

Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181

Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417

Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

MULTIPACTOR DISCHARGES

High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

MULTIPATH TRANSMISSION

Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392

Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

MULTIPLE BEAM INTERVAL SCANNERS

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854

Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

MULTIPLE DOCKING ADAPTERS

Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346

MULTIPLE OUTPUT PROGRAMS

Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

MULTIPLEXING

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814

Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162

Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115

Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243

System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221

Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384

Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863

Double-loop frequency-selected surfaces for multifrequency division multiplexing in a dual-reflector antenna
[NASA-CASE-NPO-18701-1-CU] c 32 N92-30391

MULTIPLIERS

Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390

Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447

Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712

Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341

VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N92-33011

MULTIPROCESSING (COMPUTERS)

Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

MULTISENSOR APPLICATIONS

Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390

MULTISPECTRAL BAND SCANNERS

Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297

Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

MULTISPECTRAL LINEAR ARRAYS

Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403

Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

MULTISPECTRAL PHOTOGRAPHY

Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661

Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297

MULTISPECTRAL TRACKING TELESCOPES

Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

MULTISTAGE ROCKET VEHICLES

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176

Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730

Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008

Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

MULTISTATIC RADAR

Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

MULTIVIBRATORS

Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995

High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042

A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723

Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

MUSCLES

Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329

Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703

MUSCULAR FUNCTION

Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338

Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MUSCULOSKELETAL SYSTEM

Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738

MYOCARDIUM

Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MYOPIA

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

N

N-TYPE SEMICONDUCTORS

Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146

NACELLES

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

NAPHTHALENE

Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N92-21588

NARROWBAND

Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926

Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037

NASA PROGRAMS

Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

NAVIGATION

Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

NAVIGATION AIDS

Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114

Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

NAVIGATION INSTRUMENTS

Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552

NAVIGATION SATELLITES

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

NEAR INFRARED RADIATION

Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389

NEEDLES

Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612

NEGATIVE FEEDBACK

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751-1] c 09 N71-23015
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

NEGATIVE IONS

Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

NEODYMIUM LASERS

Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499

NERVES

Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

NETS

Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007

NETWORK SYNTHESIS

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

NEURAL NETS

Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
Neural-network dedicated processor for solving competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033
Optical inner product neural associative memory
[NASA-CASE-NPO-18491-1-CU] c 60 N92-23546
Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129
Electronic neural network for solving traveling salesman and similar global optimization problems
[NASA-CASE-NPO-17807-2-CU] c 63 N92-29955
Fast temporal neural learning using teacher forcing
[NASA-CASE-NPO-18553-1-CU] c 63 N92-30085
Nonvolatile programmable neural network synaptic array
[NASA-CASE-NPO-18578-1-CU] c 33 N92-30086
A space-time neural network for processing both spatial and temporal data
[NASA-CASE-MSC-21874-1] c 63 N92-30314
Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240

NEUROGLIA

Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

NEUROLOGY

Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

NEUTRALIZERS

Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

NEUTRON EMISSION

Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

NICKEL

Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452

Brazing alloy composition
[NASA-CASE-XMF-08053] c 26 N75-27126
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

NICKEL ALLOYS

High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Nickel ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647

NICKEL CADMIUM BATTERIES

Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531
NICKEL COATINGS
Nickel aluminate coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599

NICKEL COMPOUNDS

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

NICKEL HYDROGEN BATTERIES

Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874

NICKEL PLATE

Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830

NICKEL ZINC BATTERIES

Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

NIOBIUM

Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

NIOBIUM COMPOUNDS

Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

NITINOL ALLOYS

Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120

Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032

NITRAMINE PROPELLANTS

Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

NITRATION

The 1-((diorganoxyphosphonyl)methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-((diorganoxyphosphonyl)methyl)-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

NITRIC OXIDE

Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

NITRIDES

Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

NITRIDING

Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

NITRILES

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

NITRO COMPOUNDS

Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096

NITROAMINES

Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

NITROGEN

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

NITROGEN COMPOUNDS

Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078

NITROGEN OXIDES

Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

NITROGEN TETROXIDE

Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094

NITROGENATION

Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141

NITROGUANIDINE

Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

NOBLE METALS

GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

NODES (STANDING WAVES)

System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

NOISE GENERATORS

Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

NOISE MEASUREMENT

Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-33021

NOISE METERS

Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867

Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

NOISE REDUCTION

Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568

Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453

Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057

Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418

Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218

Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117

Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273

Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998

Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364

Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235

Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563

Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913

NOISE TEMPERATURE

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

NOISE THRESHOLD

Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

NONADIABATIC CONDITIONS

Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

NONDESTRUCTIVE TESTS

Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613

Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515

Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126

Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552

Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167

A method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859

Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865

Method and apparatus for determination of material residual stress
[NASA-CASE-GSC-13451-1] c 39 N92-23549

Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101

Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154

Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

Method and apparatus for thermographically and quantitatively analyzing a structure for disbands and/or inclusions
[NASA-CASE-LAR-14559-1] c 38 N92-29829

NONEQUILIBRIUM CONDITIONS

Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

NONEQUILIBRIUM PLASMAS

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

NONEQUILIBRIUM RADIATION

Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

NONFLAMMABLE MATERIALS

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

NONLINEAR FEEDBACK

Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373

NONLINEAR FILTERS

Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

NONLINEAR OPTICS

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

NONLINEAR SYSTEMS

Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272

Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594

Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222

Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

NONLINEARITY

Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

NORMAL DENSITY FUNCTIONS

Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

NOSE CONES

Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637

Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

NOSE WHEELS

Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

NOSES (FOREBODIES)

Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

NOTCH STRENGTH

Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

NOTCH TESTS

Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131

Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOTCHES

Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOZZLE DESIGN

Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284

Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711

Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899

Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637

Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660

Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224

Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330

Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065

Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371

Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376

NOZZLE FLOW

- Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563
- Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508
- ### NOZZLE FLOW
- Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
- Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
- Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
- Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724
- ### NOZZLE GEOMETRY
- Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
- Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
- ### NOZZLE INSERTS
- Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
- Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
- ### NUCLEAR EXPLOSION EFFECT
- Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
- ### NUCLEAR FUEL ELEMENTS
- Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
- ### NUCLEAR MAGNETIC RESONANCE
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- ### NUCLEAR POWER PLANTS
- Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
- ### NUCLEAR PUMPED LASERS
- Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
- ### NUCLEAR PUMPING
- Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- ### NUCLEAR REACTOR CONTROL
- Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
- Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
- ### NUCLEAR REACTORS
- Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- Method for remotely powering a device such as a lunar rover
[NASA-CASE-LAR-14789-1] c 37 N92-30388
- ### NUCLEATE BOILING
- Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277
- ### NUCLEATION
- Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968
- ### NUCLEOPHILES
- Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
- ### NULL ZONES
- Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
- ### NUMBER THEORY
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
- ### NUMERICAL ANALYSIS
- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

NUMERICAL CONTROL

- Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
- Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
- Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
- Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
- A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
- Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583
- Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
- A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
- Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-1] c 44 N92-23463
- ### NUMERICAL INTEGRATION
- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- ### NUATION
- Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
- Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
- ### NUATION DAMPERS
- Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
- Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
- ### NUTS (FASTENERS)
- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
- Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
- High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
- Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
- Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
- Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
- Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-29150
- ### O RING SEALS
- High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
- Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
- Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
- Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
- Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
- O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175
- Check valve with poppet dashpot/frictional damping mechanism
[NASA-CASE-MSC-21950-1] c 37 N92-34242
- ### OBlique WINGS
- Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
- ### OBSERVATION
- Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835

OBSTACLE AVOIDANCE

- Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
- Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019
- ### OCCLUSION
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- ### OCEAN CURRENTS
- Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- ### OCEAN DATA ACQUISITIONS SYSTEMS
- Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- ### OCEAN SURFACE
- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
- ### OCEAN THERMAL ENERGY CONVERSION
- Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542
- ### ODORS
- Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- ### OFFSHORE PLATFORMS
- Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542
- ### OHMMETERS
- Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- Four-terminal electrical testing device --- initiator bridgeway resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- ### OIL EXPLORATION
- Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
- ### OIL RECOVERY
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
- Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
- ### OILS
- Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
- ### OLIGOMERS
- N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
- ### OMNIDIRECTIONAL ANTENNAS
- Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
- ### ON-LINE SYSTEMS
- Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
- Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
- ### ONBOARD EQUIPMENT
- Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
- Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
- Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
- Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613

Collapsible Apollo couch
[NASA-CASE-MS-13140] c 05 N72-11085

Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

Delayed simultaneous release mechanism
[NASA-CASE-10814-1] c 03 N73-20039

Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910

Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114

OPEN CHANNEL FLOW
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MS-20497-1] c 34 N85-29180

OPENINGS
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542

OPERATING TEMPERATURE
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579

OPERATIONAL AMPLIFIERS
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

OPHTHALMOLOGY
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062

Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

OPTICAL ACTIVITY
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N92-28571

OPTICAL COMMUNICATION
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491

Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389

Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553

Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MS-21806-1] c 74 N92-17863

Electro-optic resonant phase modulator
[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551

OPTICAL CORRELATORS
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MS-21509-1] c 74 N91-25840

Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022

OPTICAL COUPLING
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017

Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749

OPTICAL DATA PROCESSING

Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666

Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

OPTICAL DENSITY

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862

OPTICAL DISKS

Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N92-29133

OPTICAL EMISSION SPECTROSCOPY

Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

OPTICAL EQUIPMENT

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365

Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268

Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170

Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674

Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027

Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386

Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037

Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414

Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452

Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427

Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741

Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089

Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008

Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304

Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273

Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993

Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854

Water system virus detection
[NASA-CASE-MS-16098-1] c 51 N79-10693

Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971

Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

Dynamic aperture fringe discriminator
[NASA-CASE-NPO-18478-1-CU] c 74 N92-30084

OPTICAL FIBERS
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811

Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892

Optical fiber sensor having an active core
[NASA-CASE-LAR-14607-1SB] c 74 N92-30029

High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017

OPTICAL FILTERS
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568

Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MS-12640-1] c 74 N76-31998

System for producing chroma signals
[NASA-CASE-MS-14683-1] c 74 N77-18893

Optical conversion method --- for spacecraft television
[NASA-CASE-MS-12618-1] c 74 N78-17865

Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891

Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926

OPTICAL GYROSCOPES
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448

Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

OPTICAL HETERODYNING
Multispectral imaging system
[NASA-CASE-MS-12404-1] c 23 N73-13661

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

OPTICAL MATERIALS
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854

- Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
- OPTICAL MEASUREMENT**
- Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
- Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
- Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
- Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
- Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
- Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
- Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
- OPTICAL MEASURING INSTRUMENTS**
- Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
- Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
- Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
- Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
- Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- Visible and infrared polarization ratio spectroradiometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
- Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
- Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
- Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
- OPTICAL MEMORY (DATA STORAGE)**
- Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
- Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
- Optical inner product neural associative memory
[NASA-CASE-NPO-18491-1-CU] c 60 N92-23546
- Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132
- Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057
- OPTICAL PATHS**
- Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
- Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
- Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N92-29117

- OPTICAL POLARIZATION**
- Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
- Polarization perception device
[NASA-CASE-MSC-21915-1] c 74 N92-30027
- OPTICAL PROPERTIES**
- Optical torqueometer Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
- Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
- Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Method of forming silicon structures with selectable optical characteristics
[NASA-CASE-NPO-18625-1-CU] c 76 N92-30102
- Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N92-33028
- OPTICAL PUMPING**
- Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- OPTICAL PYROMETERS**
- Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
- OPTICAL RADAR**
- Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
- OPTICAL RANGE FINDERS**
- Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
- Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
- OPTICAL REFLECTION**
- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
- Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
- Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
- OPTICAL RESONANCE**
- Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- OPTICAL SCANNERS**
- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
- Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697

- Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
- Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
- Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
- Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
- Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
- Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
- Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- OPTICAL SWITCHING**
- Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
- GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245
- Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N92-29117
- OPTICAL TRACKING**
- Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
- Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
- Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
- OPTICAL TRANSFER FUNCTION**
- Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
- OPTICAL WAVEGUIDES**
- Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
- OPTIMIZATION**
- Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
- Aerodynamic design optimization using sensitivity analysis and computational fluid dynamics
[NASA-CASE-LAR-14815-1-CU] c 34 N92-29830
- OPTOELECTRONIC DEVICES**
- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
- Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
- OPTOGALVANIC SPECTROSCOPY**
- Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753
- ORAL HYGIENE**
- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- ORBIT TRANSFER VEHICLES**
- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- ORBITAL ASSEMBLY**
- Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323

- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
- Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
- High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
- Robot-friendly connector --- space truss structures
[NASA-CASE-MSC-21864-1] c 37 N92-23544
- Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-29150
- ORBITAL LAUNCHING**
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- ORBITAL MANEUVERING VEHICLES**
- Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- ORBITAL MANEUVERS**
- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- ORBITAL MECHANICS**
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- ORBITAL SERVICING**
- Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
- System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
- Robot serviced space facility
[NASA-CASE-GSC-13408-1] c 18 N92-24244
- ORDNANCE**
- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- ORGANIC BORON COMPOUNDS**
- Boron-carbon-silicon polymers and ceramic and a process for the production thereof
[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160
- ORGANIC CHEMISTRY**
- Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
- ORGANIC COMPOUNDS**
- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Amine terminated bispartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- ORGANIC MATERIALS**
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198
- ORGANIC SILICON COMPOUNDS**
- Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- Boron-carbon-silicon polymers and ceramic and a process for the production thereof
[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160
- ORGANIC SULFUR COMPOUNDS**
- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- ORGANOMETALLIC COMPOUNDS**
- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- ORGANOMETALLIC POLYMERS**
- Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
- A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
- ORGANS**
- Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032
- ORIFICE FLOW**
- Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
- Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-27504
- ORIFICES**
- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
- Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-27504
- Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724
- Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N92-33030
- ORTHO HYDROGEN**
- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- ORTHO PARA CONVERSION**
- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- ORTHOGONAL MULTIPLEXING THEORY**
- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- ORTHOGONALITY**
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- ORTHOPEDICS**
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- ORTHOTROPIC CYLINDERS**
- Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
- Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
- OSCILLATING FLOW**
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-2] c 34 N92-30024
- OSCILLATION DAMPERS**
- Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
- Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
- Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
- Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
- Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
- Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
- OSCILLATIONS**
- Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
- Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236
- OSCILLATORS**
- Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
- Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
- Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
- Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
- Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
- Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
- Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
- LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
- Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
- Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
- Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
- Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
- Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
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- Thin window, drifted silicon, charged particle detector
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Semiconductor surface protection material
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[NASA-CASE-XLA-01807] c 15 N71-10799

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[NASA-CASE-MFS-14023] c 33 N71-25351

Solar panel fabrication Patent
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Ultrasonic scanner for radial and flat panels
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Combined load test apparatus for flat panels
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[NASA-CASE-XNP-00611] c 09 N70-35219

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[NASA-CASE-XNP-00540] c 09 N70-35382

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[NASA-CASE-XLA-04622] c 03 N70-41580

Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658

Plural beam antenna
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Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329

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[NASA-CASE-NPO-13921-1] c 44 N79-14526

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[NASA-CASE-MFS-23349-1] c 44 N79-23481

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[NASA-CASE-GSC-11296-1] c 23 N73-30666

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[NASA-CASE-MFS-21372-1] c 74 N74-27866

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Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009

Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017

Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

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[NASA-CASE-LAR-10776-1] c 02 N74-10034

Method for refurbishing and processing parachutes
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[NASA-CASE-GSC-11077-1] c 02 N73-13008

Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014

System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

PARAGLIDERS

Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

PARALLAX

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

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Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

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Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-NPO-02899-1] c 33 N79-21265

Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

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[NASA-CASE-NPO-13676-1] c 60 N79-20751

Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890

Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769

Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852

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[NASA-CASE-NPO-17564-1-CU] c 32 N92-22033

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[NASA-CASE-NPO-18414-1-CU] c 62 N92-24045

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[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

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Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258

Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

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Method and apparatus for quadriphase-shift-key and linear phase modulation
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[NASA-CASE-XMS-00907] c 02 N70-41630

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Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

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Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

Converting a CO₂ atmosphere to a high-purity O₂ supply
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Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777

Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

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[NASA-CASE-NPO-13112-1] c 73 N74-26767

Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

PARTICLE BEAMS

Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602

Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310

Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

PARTICLE COLLISIONS

Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

PARTICLE DENSITY (CONCENTRATION)

Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332

PARTICLE EMISSION

Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401

Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

PARTICLE ENERGY

Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322

Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

PARTICLE INTERACTIONS

Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

PARTICLE MASS

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

PARTICLE MOTION

Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

PARTICLE PRODUCTION

Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N92-34172

PARTICLE SIZE DISTRIBUTION

Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936

Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153

Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364

Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114

PARTICLE TRACKS

Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

PARTICLE TRAJECTORIES

Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

PARTICLES

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293

Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765

Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603

Controlled method of reducing electrophoretic mobility of macromolecules, particles, or cells
[NASA-CASE-MFS-26049-2-NP] c 25 N92-28728

PARTICULATE SAMPLING

Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401

Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192

Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527

Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

PARTICULATES

Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

PASSAGEWAYS

Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

PASSENGERS

Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

PASSIVE SATELLITES

Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052

PASSIVITY

Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681

PASTES

Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137

PATENT APPLICATIONS

Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

PATENTS

Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

PATIENTS

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

PATTERN RECOGNITION

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400

General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

Method and apparatus for predicting the direction of movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129

PATTERN REGISTRATION

Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

PAYLOAD DELIVERY (STS)
[NASA-CASE-MSC-21330-1] c 16 N88-24660

PAYLOAD DEPLOYMENT & RETRIEVAL SYSTEM
[NASA-CASE-MSC-21330-1] c 16 N88-24660

PAYLOAD RETRIEVAL (STS)
[NASA-CASE-MFS-23052-2] c 74 N79-13855

Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-25403-1] c 18 N83-29303

Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

FOAM
[NASA-CASE-XLA-00838] c 03 N70-36778

Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582

Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687

Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692

Omni-directional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

Payload retention device
[NASA-CASE-MSC-21906-1] c 37 N92-28727

Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010

Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013

PCM TELEMETRY

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197

PEELING

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

PEENING

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

PELLETS

Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606

Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

PELTIER EFFECTS

- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

PELVIS

- Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

PENETRANTS

- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

PENETRATION

- Method and device for detection of surface discontinuities or defects
[NASA-CASE-MS-C-14187-1] c 35 N74-32879
- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

PENETROMETERS

- Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
- Soil penetrometer
[NASA-CASE-NXP-05530] c 14 N73-32321
- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

PERCEPTION

- Method for measuring cutaneous sensory perception
[NASA-CASE-MS-C-13609-1] c 05 N72-25122

PERFLUORO COMPOUNDS

- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
- Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
- Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
- Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
- Polymerizable disilanol having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
- Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkylenoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676

PERFLUOROALKANE

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

PERFORATED PLATES

- Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582

PERFORATED SHELLS

- Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

PERFORMANCE PREDICTION

- Failure detection and control means for improved drift performance of a gimbalized platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

PERFORMANCE TESTS

- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

- Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
- Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
- Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
- Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
- O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175
- Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176

PERIODIC VARIATIONS

- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

PERIPHERAL EQUIPMENT (COMPUTERS)

- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MS-C-20258-1] c 60 N84-28492

PERISCOPES

- Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362

PERMANENT MAGNETS

- Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824

PERMEABILITY

- Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

PERMITTIVITY

- Process for lowering the dielectric constant of polyimides using diamine acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

PEROXIDES

- Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

PERSONAL COMPUTERS

- Printer port interface
[NASA-CASE-LAR-13950-1] c 60 N92-30541

PERSPIRATION

- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MS-C-90153-2] c 05 N72-25120
- Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

PERTURBATION

- Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
- Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
- Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410

PERTURBATION THEORY

- Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783

PH FACTOR

- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHASE COHERENCE

- Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
- Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

PHASE CONJUGATION

- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

PHASE CONTRAST

- Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

PHASE CONTROL

- Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
- Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
- Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145

- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Digital numerically controlled oscillator
[NASA-CASE-MS-C-16747-1] c 33 N81-17349
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

PHASE DEMODULATORS

- Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

PHASE DETECTORS

- Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
- Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
- High speed phase detector Patent
[NASA-CASE-NXP-01306-2] c 09 N71-24596
- Phase protection system for ac power lines
[NASA-CASE-MS-C-17832-1] c 33 N74-14956
- Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
- Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
- Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MS-C-16461-1] c 33 N79-11313
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
- Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MS-C-16170-2] c 32 N84-27952
- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MS-C-20865-1] c 32 N87-18692
- Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

PHASE DEVIATION

- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

PHASE LOCK DEMODULATORS

- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-NXP-01107] c 10 N71-28859
- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

PHASE LOCKED SYSTEMS

- Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
- Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
- Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
- Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
- Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
- Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
- Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544

- Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
- Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
- Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
- Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
- Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
- Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
- Low speed phase-locked speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
- Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
- Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
- PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
- Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MS-20187-1] c 33 N87-25531
- Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
- Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
- Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
- Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384
- Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-34174
- PHASE MODULATION**
- Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
- Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
- Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Phase modulator Patent
[NASA-CASE-MS-13201-1] c 07 N71-28429
- Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
- Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
- Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
- Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MS-18675-1] c 32 N84-22820
- Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MS-16170-2] c 32 N84-27952
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- Electro-optic resonant phase modulator
[NASA-CASE-NPO-18702-1-CU] c 74 N92-23551
- PHASE SHIFT**
- Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
- Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
- Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MS-18808-1] c 32 N90-20280
- Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
- Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N92-28571
- PHASE SHIFT CIRCUITS**
- Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
- Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
- Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
- Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
- Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
- Pseudonoise code tracking loop
[NASA-CASE-MS-18035-1] c 32 N81-15179
- Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
- PHASE SHIFT KEYING**
- Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
- Differential phase shift keyed communication system
[NASA-CASE-MS-14065-1] c 32 N74-26654
- Differential phase shift keyed signal resolver
[NASA-CASE-MS-14066-1] c 33 N74-27705
- Unbalanced quadriphase demodulator
[NASA-CASE-MS-14840-1] c 32 N77-24331
- Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
- Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
- Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
- PHASE SWITCHING INTERFEROMETERS**
- Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
- PHASE TRANSFORMATIONS**
- Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
- PHASE VELOCITY**
- Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182
- PHASED ARRAYS**
- Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
- Phased array antenna control
[NASA-CASE-MS-14939-1] c 32 N79-11264
- Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
- Coaxial phased array antenna
[NASA-CASE-MS-16800-1] c 32 N81-14187
- Spiral slotted phased antenna array
[NASA-CASE-MS-18532-1] c 32 N82-27558
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
- PHENOLIC RESINS**
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- PHENOLS**
- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- PHENYLS**
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
- Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
- Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141
- Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953
- PHONOCARDIOGRAPHY**
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- PHOSPHATES**
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- PHOSPHAZENE**
- Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carbonylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Carbonylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- PHOSPHINES**
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-14903-1] c 27 N78-32256

Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854

Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347

PHOSPHONITRILES
Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

PHOSPHORS
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831

X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

Single layer multi-color luminescent display and method of making
[NASA-CASE-LAR-13616-3] c 74 N92-29158

A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389

PHOSPHORUS
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280

The 1-((diorganoxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133

Some 1-((diorganoxyphosphonyl)methyl)-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

PHOSPHORUS COMPOUNDS
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272

Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525

The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

PHOSPHORUS POLYMERS
Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

Carboranylclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347

PHOTOABSORPTION
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

PHOTOCATHODES
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

PHOTOCHEMICAL REACTIONS
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255

Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

Violet-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694

Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186

PHOTOCHROMISM
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N92-16808

PHOTOCONDUCTIVE CELLS

Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

PHOTOCONDUCTIVITY
Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094

PHOTOCONDUCTORS
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480

Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

PHOTODIODES
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549

Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

PHOTODISSOCIATION
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

PHOTOELECTRIC CELLS
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678

Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

PHOTOELECTRIC EFFECT
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

PHOTOELECTRIC EMISSION
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

PHOTOELECTRIC MATERIALS
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090

Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475

PHOTOELECTRICITY
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

PHOTOELECTROCHEMICAL DEVICES
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262

Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHOTOELECTRON SPECTROSCOPY
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429

High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

PHOTOGRAPHIC EMULSIONS
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209

Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

PHOTOGRAPHIC EQUIPMENT
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465

Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886

PHOTOGRAPHIC FILM
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322

Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998

Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461

Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

PHOTOGRAPHIC MEASUREMENT
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645

Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282

TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

PHOTOGRAPHIC PROCESSING
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

PHOTOGRAPHIC PROCESSING EQUIPMENT
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489

PHOTOGRAPHIC RECORDING
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366

Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551

Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324

Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443

Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

PHOTOGRAPHY
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886

Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

PHOTOIONIZATION
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

PHOTOLYSIS
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580

Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470

PHOTOMAPPING
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

PHOTOMASKS
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209

PHOTOMECHANICAL EFFECT
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

PHOTOMETERS
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655

- Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
- Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
- Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
- Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
- Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
- Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926
- PHOTOMICROGRAPHY**
- Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
- Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
- PHOTOMULTIPLIER TUBES**
- Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
- Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
- Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
- PHOTON BEAMS**
- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- PHOTON-ELECTRON INTERACTION**
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- PHOTONS**
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- PHOTOSENSITIVITY**
- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
- Apparatus for calibrating an image disector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- PHOTOTHERMAL CONVERSION**
- Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- PHOTOTRANSISTORS**
- Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
- Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
- High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
- GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245
- PHOTOTROPISM**
- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- PHOTOVISCOELASTICITY**
- Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
- PHOTOVOLTAIC CELLS**
- Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
- Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
- Photovoltaic cell array
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- Solar cells having integral collector grids
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- Double-sided solar cell package
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- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
- Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
- Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N92-24057
- PHOTOVOLTAIC CONVERSION**
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- PHOTOVOLTAIC EFFECT**
- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
- Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- PHthalATES**
- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- PHthalOCYANIN**
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
- Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
- PHYSICAL EXERCISE**
- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
- PHYSICAL OPTICS**
- Matching optics for Gaussian beams
[NASA-CASE-ARC-11892-1-SB] c 74 N92-16810
- PHYSICAL PROPERTIES**
- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
- PHYSICAL WORK**
- Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910
- PHYSIOLOGICAL EFFECTS**
- Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
- Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
- PHYSIOLOGICAL TESTS**
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- PHYSIOLOGY**
- Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
- Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709
- PHYTOTRONS**
- Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N92-34171
- PIERCING**
- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114
- PIEZOELECTRIC CRYSTALS**
- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
- CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- PIEZOELECTRIC GAGES**
- Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
- PIEZOELECTRIC TRANSDUCERS**
- Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
- Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
- Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
- Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- PIEZOELECTRICITY**
- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- Piezoelectrostatic generator
[NASA-CASE-MFS-28298-1] c 76 N91-14872
- Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016
- PIEZORESISTIVE TRANSDUCERS**
- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091

- Transverse piezoresistance and pinch effect electromechanical transducers Patent [NASA-CASE-ERC-10088] c 26 N71-25490
- PIGMENTS**
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- PILOT TRAINING**
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- PILOTS (PERSONNEL)**
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- PINCH EFFECT**
Toggle mechanism for pinching metal tubes [NASA-CASE-GSC-12274-1] c 37 N79-28550
- PINHOLE CAMERAS**
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects [NASA-CASE-GSC-12851-1] c 35 N85-30281
- PINS**
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Turbo-machine blade vibration damper Patent [NASA-CASE-XLE-00155] c 28 N71-29154
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Self-locking double retention redundant full pin release [NASA-CASE-NPO-16233-1] c 37 N86-20801
Method and apparatus for releasably connecting first and second objects [NASA-CASE-MSC-21517-1] c 31 N92-16161
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- PINTLES**
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- PIPE FLOW**
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Monogroove heat pipe design: Insulated liquid channel with bridging wick [NASA-CASE-MSC-20497-1] c 34 N85-29180
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- PIPELINES**
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- PIPELINING (COMPUTERS)**
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter [NASA-CASE-NPO-15519-1] c 32 N84-34651
Neighborhood comparison operator [NASA-CASE-NPO-16464-1-CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data [NASA-CASE-NPO-16462-1-CU] c 60 N88-24169
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Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization [NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Highly parallel computer architecture for robotic computation [NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
- PIPES (TUBES)**
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Piping arrangement through a double chamber structure [NASA-CASE-XNP-08882] c 15 N69-39935
Foldable conduit Patent [NASA-CASE-XLE-00620] c 32 N70-41579
Thermobulb mount Patent [NASA-CASE-NPO-10158] c 33 N71-16356
Method and apparatus for precision sizing and joining of large diameter tubes Patent [NASA-CASE-XMF-05114] c 15 N71-17650
Sealed separable connection Patent [NASA-CASE-NPO-10064] c 15 N71-17693
Electrical switching device Patent [NASA-CASE-NPO-10037] c 09 N71-19610
Tube dimpling tool Patent [NASA-CASE-XMS-06876] c 15 N71-21536
Plasma device feed system Patent [NASA-CASE-XLE-02902] c 25 N71-21694
- Spin forming tubular elbows Patent [NASA-CASE-XMF-01083] c 15 N71-22723
Portable milling tool Patent [NASA-CASE-XMF-03511] c 15 N71-22799
Internal flare angle gauge Patent [NASA-CASE-XMF-04415] c 14 N71-24693
Method and apparatus for precision sizing and joining of large diameter tubes Patent [NASA-CASE-XMF-05114-3] c 15 N71-24865
Weld preparation machine Patent [NASA-CASE-XKS-07953] c 15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes Patent [NASA-CASE-XMF-05114-2] c 15 N71-26148
Collapsible antenna boom and transmission line Patent [NASA-CASE-MFS-20068] c 07 N71-27191
Tube fabricating process [NASA-CASE-LAR-10203-1] c 15 N72-16330
Torsional disconnect unit [NASA-CASE-NPO-10704] c 15 N72-20445
Open type urine receptacle [NASA-CASE-MSC-12324-1] c 05 N72-22093
Method for measuring cutaneous sensory perception [NASA-CASE-MSC-13609-1] c 05 N72-25122
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Method for fabricating a mass spectrometer inlet leak [NASA-CASE-GSC-12077-1] c 35 N77-24455
Precision heat forming of tetrafluoroethylene tubing [NASA-CASE-MSC-18430-1] c 37 N82-24491
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Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt [NASA-CASE-LEW-13107-2] c 52 N84-23095
Tubing and cable cutting tool [NASA-CASE-LAR-12786-1] c 37 N84-28085
Fluid leak indicator [NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes [NASA-CASE-MFS-19796-1] c 37 N86-32736
Self-contained, single-use hose and tubing cleaning module [NASA-CASE-MSC-20857-1] c 37 N87-17035
Liquid seeding atomizer [NASA-CASE-ARC-11631-1] c 34 N87-21255
Tube coupling device [NASA-CASE-MFS-25964-2] c 37 N87-22977
Tapered, tubular polyester fabric [NASA-CASE-MSC-21082-1] c 27 N87-29672
Tool and process for miniature explosive joining of tubes [NASA-CASE-LAR-13662-1] c 37 N88-14359
Quick connect coupling [NASA-CASE-MSC-21539-1] c 37 N91-14610
- PISTON ENGINES**
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Hot gas engine with dual crankshafts [NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine [NASA-CASE-LAR-12148-1] c 44 N82-24640
Stirling cycle cryogenic cooler [US-PATENT-4,389,849] c 44 N83-28574
- PISTONS**
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Firefly pump-metering system [NASA-CASE-GSC-10218-1] c 15 N72-21465
Collapsible pistons [NASA-CASE-MSC-13789-1] c 11 N73-32152
Airflow control system for supersonic inlets [NASA-CASE-LEW-11188-1] c 02 N74-20646
Free-piston regenerative hot gas hydraulic engine [NASA-CASE-LEW-12274-1] c 37 N80-31790
Power control for hot gas engines [NASA-CASE-NPO-14220-1] c 37 N81-14318
Multiple plate hydrostatic viscous damper [NASA-CASE-LEW-12445-1] c 37 N81-22360
- Gas-to-hydraulic power converter [NASA-CASE-MSC-18794-1] c 44 N83-14693
Centrifugal-reciprocating compressor [NASA-CASE-NPO-14597-2] c 37 N84-28081
Lightweight piston [NASA-CASE-LAR-13150-1] c 24 N87-27742
Composite piston [NASA-CASE-LAR-13435-1] c 37 N88-23981
Lightweight piston architecture [NASA-CASE-LAR-13926-1] c 37 N90-22042
Method and apparatus for waste collection and storage [NASA-CASE-MSC-21025-3] c 54 N91-26747
- PITCH (INCLINATION)**
Reverse pitch fan with divided splitter [NASA-CASE-LEW-12760-1] c 07 N77-17059
Velocity vector control system augmented with direct lift control [NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals [NASA-CASE-LAR-12562-1] c 08 N81-26152
Swashplate control system [NASA-CASE-ARC-11633-1] c 08 N87-23631
- PITCHING MOMENTS**
High lift, low pitching moment airfoils [NASA-CASE-LAR-13215-1] c 02 N89-14224
- PITOT TUBES**
Pitot-pressure probe for measuring pressure in a hypersonic wind tunnel [NASA-CASE-LAR-14232-1] c 09 N92-34213
- PIVOTS**
Tension measurement device Patent [NASA-CASE-XMS-04545] c 15 N71-22878
Unidirectional flexural pivot [NASA-CASE-GSC-12622-1] c 37 N84-12492
Joint for deployable structures [NASA-CASE-NPO-16038-1] c 37 N86-19605
Thumb-actuated two-axis controller [NASA-CASE-ARC-11372-1] c 08 N86-27288
Bladder operated robotic joint [NASA-CASE-MFS-28682-1] c 27 N92-29831
Flexible robotic arm [NASA-CASE-GSC-13161-1] c 37 N92-33634
- PIXELS**
Programmable remapper with single flow architecture [NASA-CASE-MSC-21481-1] c 60 N91-13890
- PLANAR STRUCTURES**
Window defect planar mapping technique [NASA-CASE-MSC-19442-1] c 74 N77-10899
Method and apparatus for preparing multiconductor cable with flat conductors [NASA-CASE-MFS-10946-1] c 31 N79-21226
High voltage planar multijunction solar cell [NASA-CASE-LEW-13400-1] c 44 N82-31764
Dual cathode system for electron beam instruments [NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Coaxial turnstile junction [NASA-CASE-GSC-13422-1] c 33 N92-23462
- PLANE WAVES**
Multiple reflection conical microwave antenna [NASA-CASE-NPO-11661] c 07 N73-14130
- PLANETARY ATMOSPHERES**
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent [NASA-CASE-XAC-08494] c 30 N71-15990
Flow field simulation Patent [NASA-CASE-LAR-11138] c 12 N71-20436
Ablation sensor Patent [NASA-CASE-XLA-01791] c 14 N71-22991
- PLANETARY GRAVITATION**
Impact simulator Patent [NASA-CASE-XLA-00493] c 11 N70-34786
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent [NASA-CASE-XNP-00708] c 14 N70-35394
- PLANETARY LANDING**
Parachute glider Patent [NASA-CASE-XLA-00898] c 02 N70-36804
Omnidirectional multiple impact landing system Patent [NASA-CASE-XLA-09881] c 31 N71-16085
- PLANETARY MAPPING**
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar [NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
- PLANETARY ORBITS**
Flexible foam erectable space structures Patent [NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent [NASA-CASE-XLA-00678] c 31 N70-34296
- PLANETARY RADIATION**
Attitude sensor for space vehicles Patent [NASA-CASE-XLA-00793] c 21 N71-22880

PLANETARY SURFACES

- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Method for detecting surface motions and mapping small
terrestrial or planetary surface deformations with synthetic
aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

PLANTS (BOTANY)

- Rotary plant growth accelerating apparatus ---
weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Molten salt pyrolysis of latex --- synthetic hydrocarbon
fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method and apparatus for bio-regenerative life support
system
[NASA-CASE-MS-C-21629-1] c 54 N91-31803

PLASMA ACCELERATION

- Apparatus for increasing ion engine beam density
Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Coaxial high density, hypervelocity plasma generator and
accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

PLASMA ACCELERATORS

- Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Continuously operating induction plasma accelerator
Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Crossed-field MHD plasma generator/ accelerator
Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Self-repeating plasma generator having communicating
annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

PLASMA ARC WELDING

- ARC length control for plasma welding
[NASA-CASE-MS-C-20900-1] c 37 N88-30131

PLASMA CONTROL

- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Self-energized plasma compressor --- for compressing
plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA CYLINDERS

- Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519

PLASMA DENSITY

- Focussing system for an ion source having apertured
electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Measurement of plasma temperature and density using
radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

PLASMA DIAGNOSTICS

- Probes having ring and primary sensor at same potential
to prevent collection of stray wall currents in ionized
gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Apparatus for measuring conductivity and velocity of
plasma utilizing a plurality of sensing coils positioned in
the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Measurement of plasma temperature and density using
radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
Trochoidal analysis of scattered electrons in a merged
electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

PLASMA DYNAMICS

- Apparatus for measuring conductivity and velocity of
plasma utilizing a plurality of sensing coils positioned in
the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Self-energized plasma compressor --- for compressing
plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
- PLASMA ENGINES**
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Hybrid plume plasma rocket
[NASA-CASE-MS-C-20476-2] c 20 N89-25279
High temperature refractory member with radiation
emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

PLASMA GENERATORS

- Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
Crossed-field MHD plasma generator/ accelerator
Patent
[NASA-CASE-XLA-03374] c 25 N71-15562

- Coaxial high density, hypervelocity plasma generator and
accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

- Self-energized plasma compressor --- for compressing
plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

- Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951

- Continuous plasma laser --- method and apparatus for
producing intense, coherent, monochromatic light from low
temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

PLASMA GUNS

- Method of making a diffusion bonded refractory coating
Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Plasma gun with coaxial powder feed and adjustable
cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875

PLASMA JETS

- Method of preparing water purification membranes ---
polymerization of allyl amine as thin films in plasma
discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Combination automatic-starting electrical plasma torch
and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Plasma cleaning device --- designed for high vacuum
environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

PLASMA LAYERS

- Electrostatic plasma modulator for space vehicle
re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized
gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

PLASMA POTENTIALS

- Method and apparatus for neutralizing potentials induced
on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

PLASMA PROBES

- Probes having ring and primary sensor at same potential
to prevent collection of stray wall currents in ionized
gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

PLASMA PROPULSION

- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
Hybrid plume plasma rocket
[NASA-CASE-MS-C-20476-2] c 20 N89-25279

PLASMA RADIATION

- Means for measuring the electron density gradients of
the plasma sheath formed around a space vehicle
Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

PLASMA SHEATHS

- Apparatus for measuring electric field strength on the
surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Means for measuring the electron density gradients of
the plasma sheath formed around a space vehicle
Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

PLASMA SPRAYING

- Method of coating carbonaceous base to prevent
oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Fully plasma-sprayed compliant backed ceramic turbine
seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine
seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

- Plasma gun with coaxial powder feed and adjustable
cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725

PLASMA TEMPERATURE

- Measurement of plasma temperature and density using
radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA-ELECTROMAGNETIC INTERACTION

- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

PLASMAS (PHYSICS)

- Apparatus for measuring conductivity and velocity of
plasma utilizing a plurality of sensing coils positioned in
the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
Method and apparatus for maintaining thermal control
in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298

PLASMONS

- Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

PLASTIC COATINGS

- Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Oxygen post-treatment of plastic surface coated with
plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Process for preparing highly optically
transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

PLASTIC DEFORMATION

- Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

PLASTIC FLOW

- Polyimide processing additives
[NASA-CASE-LAR-13669-1] c 27 N92-29157

PLASTIC PROPERTIES

- Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198

PLASTIC TAPES

- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

PLASTICIZERS

- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Tackifier for addition polyimides containing
monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Method of bonding plasticized elastomer to metal and
articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

PLASTICS

- Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Sealing member and combination thereof and method
of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Molding apparatus --- for thermosetting plastic
compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Polyimide processing additives
[NASA-CASE-LAR-13669-1] c 27 N92-29157

PLATENS

- Compression test apparatus
[NASA-CASE-MS-C-18723-1] c 35 N83-21312

PLATES

- Pressurized bellows flat contact heat exchanger
interface
[NASA-CASE-MS-C-21271-1] c 34 N90-21999

Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

PLATES (STRUCTURAL MEMBERS)

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362

Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477

Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416

Floating nut retention system
[NASA-CASE-MS-C-16938-1] c 37 N80-23653

Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678

PLATFORMS

Expandable pallet for space station interface attachments
[NASA-CASE-MS-C-21117-2] c 18 N89-28554

PLATING

Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047

Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360

Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065

Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

PLATINUM

Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252

Platinum resistance thermometer circuit
[NASA-CASE-MS-C-12327-1] c 35 N77-27368

Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461

PLATINUM ALLOYS

Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

PLAYBACKS

Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132

PLENUM CHAMBERS

Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689

Gas filter mounting structure
[NASA-CASE-MS-C-12297] c 14 N72-23457

Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568

PLETHYSMOGRAPHY

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Apparatus for determining changes in limb volume
[NASA-CASE-MS-C-18759-1] c 52 N83-27578

PLOTTERS

Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

PLOTTING

Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

PLUG NOZZLES

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117

Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

PLUGS

Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503

Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505

Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661

Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766

High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MS-C-18526-1] c 37 N82-24494

Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841

Thruster sealing system and apparatus
[NASA-CASE-MS-C-21898-1] c 37 N92-17872

Method of producing a plug-type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N92-22038

PLUMES

Hypervelocity impact shield
[NASA-CASE-MS-C-21420-1] c 18 N92-15114

PLUNGERS

Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MS-C-21517-1] c 31 N92-16161

Check valve with poppet dashpot/frictional damping mechanism
[NASA-CASE-MS-C-21950-1] c 37 N92-34242

PNEUMATIC CONTROL

Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469

Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321

Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409

Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975

Foot pedal operated fluid type exercising device
[NASA-CASE-MS-C-11561-1] c 05 N73-32014

Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

PNEUMATIC EQUIPMENT

High pressure air valve Patent
[NASA-CASE-MS-C-11010] c 15 N71-19485

Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045

Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

Pneumatic amplifier Patent
[NASA-CASE-MS-C-12121-1] c 15 N71-27147

Life raft stabilizer
[NASA-CASE-MS-C-12393-1] c 02 N73-26006

Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136

Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

Gas-to-hydraulic power converter
[NASA-CASE-MS-C-18794-1] c 44 N83-14693

System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220

POINT SOURCES

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

POINTING CONTROL SYSTEMS

Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229

All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372

Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951

POINTS (MATHEMATICS)

Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

POLAR ORBITS

Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

POLARIMETERS

Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101

Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

POLARIMETRY

Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

POLARITY

Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239

Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

POLARIZATION (WAVES)

System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982

Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

POLARIZED ELECTROMAGNETIC RADIATION

Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219

Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382

Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261

Coaxial phased array antenna
[NASA-CASE-MS-C-16800-1] c 32 N81-14187

Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

POLARIZED LIGHT

Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053

Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

Polarization perception device
[NASA-CASE-MS-C-21915-1] c 74 N92-30027

POLARIZED RADIATION

Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

POLARIZERS

Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891

Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N92-29117

POLES

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

POLISHING

Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705

Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

POLLUTION CONTROL

System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457

Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497

Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

POLLUTION MONITORING

- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

POLYAMIDE RESINS

- Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Fire and heat resistant laminating resins based on maleimide and citraconimide substituted 1,2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
A process for preparing 1,3-diamino-5-pentafluorosulfanybenzene and polymers therefrom
[NASA-CASE-LAR-14773-1-CU] c 27 N92-10105
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
Processing for maximizing the level of crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-14481-1] c 25 N92-16043

POLYBENZIMIDAZOLE

- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953

POLYBUTADIENE

- New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

POLYCARBONATES

- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091

POLYCRYSTALS

- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

POLYESTERS

- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450

Ethynyl terminated ester oligomers and polymers

- therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYETHER RESINS

- Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYIMIDE RESINS

- Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230
A process for preparing an assembly of an article and a soluble polyimide which resists dimensional change, delamination, and debonding when exposed to changes in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N92-21711
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053

POLYIMIDES

- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125

Polyimides of ether-linked aryl tetracarboxylic

- dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
Process for preparing thermoplastic aromatic polyimides
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- Solar cell angular position transducer
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- Three point lead screw positioning apparatus
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- Compact solar still Patent
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- Potable water dispenser
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- Metering gun for dispensing precisely measured charges of fluid
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- Iodine generator for reclaimed water purification
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- Fire resistant coating composition Patent
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- Method of making contamination-free ceramic bodies
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- Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
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- Method of forming superalloys
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- Method of heat treating a formed powder product material
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- Method of forming articles of manufacture from superalloy powders
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- One step HIP canning of powder metallurgy composites
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- Power supply Patent
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- Broadband stable power multiplier Patent
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- Signal path series step biased multidevice high efficiency amplifier Patent
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- Isolated output system for a class D switching-mode amplifier
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- Transformerless DC-DC voltage amplifier with optically isolated switching devices
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- Excitation and detection circuitry for a flux responsive magnetic head
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- Apparatus for increasing ion engine beam density Patent
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[NASA-CASE-LAR-13019-1] c 07 N85-35194
- Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
- Optical fiber sensor having an active core
[NASA-CASE-LAR-14607-1SB] c 74 N92-30029
- POWER FACTOR CONTROLLERS**
- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- Power control for ac motor
[NASA-CASE-MFS-25661-1] c 33 N85-22877
- POWER GAIN**
- Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
- CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
- POWER LIMITERS**
- Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
- POWER LINES**
- Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
- Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
- Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
- Shielded conductor cable system
[NASA-CASE-MS-C-12745-1] c 33 N81-27397
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

POWER REACTORS

Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

POWER SERIES

Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Phase modulating with odd and even finite power series
of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

POWER SPECTRA

Method and apparatus for high resolution spectral
analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Instrument for determining coincidence and elapse time
between independent sources of random sequential
events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

POWER SUPPLIES

Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Method and apparatus for precision control of
radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

POWER SUPPLY CIRCUITS

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Electronic amplifier with power supply switching
Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Pulsed energy power system Patent
[NASA-CASE-MS-13112] c 03 N71-11057
Data processor having multiple sections activated at
different times by selective power coupling to the sections
Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Drive circuit for minimizing power consumption in
inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
A dc to ac to dc converter having transistor synchronous
rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
LC-oscillator with automatic stabilized amplitude via bias
current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Integrable power gyrator --- with Z-matrix design using
parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
The dc-to-dc converters employing staggered-phase
power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
Closed Loop solar array-ion thruster system with power
control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

PREBURNERS

Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

PRECESSION

Dynamic precession damper for spin stabilized vehicles
Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

PRECIPITATION (CHEMISTRY)

Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Human serum albumin crystals and method of
preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

PRECIPITATORS

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

PRECISION

Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Method and apparatus for precision sizing and joining
of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

PREDICTIONS

Digital phase-lock loop having an estimator and predictor
of error
[NASA-CASE-NPO-17198-1-CU] c 32 N88-29076
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Method and apparatus for predicting the direction of
movement in machine vision
[NASA-CASE-NPO-17552-1-CU] c 54 N92-29129
Microwave temperature profiler for clear air turbulence
prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N92-29148

PREFLIGHT OPERATIONS

Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545

PREFORMS

Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
Woven angle ply fabric and apparatus and method for
producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220
High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

PRELAUNCH TESTS

Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

PREPOLYMERS

Novel polycarboxylic prepolymeric materials and
polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Curable liquid hydrocarbon prepolymers containing
hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method for forming pyrrone molding powders and
products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Polyphenylquinoxalines containing pendant
phenylethynyl and ethynyl groups --- for thermoplastic
resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

PREPREGS

Tackifier for addition polyimides containing
monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N81-15334
Preparing composite materials from matrices of
processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Process for application of powder particles to filamentary
materials
[NASA-CASE-LAR-14231-1] c 24 N92-10070
Low pressure process for continuous fiber reinforced
polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 N92-34214

PRESSURE

Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
High temperature, flexible pressure-actuated, brush
seal
[NASA-CASE-LEW-15086-1] c 37 N92-16318

PRESSURE CHAMBERS

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Whole body measurement systems --- for
weightlessness simulation
[NASA-CASE-MS-13972-1] c 52 N74-10975
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Safety shield for vacuum/pressure chamber viewing
port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344

PRESSURE DISTRIBUTION

Instrument for use in performing a controlled Valsalva
maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Prevention of pressure build-up in electrochemical cells
Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Thermal barrier pressure seal --- shielding junctions
between spacecraft control surfaces and structures
[NASA-CASE-MS-18134-1] c 37 N81-15363
Continuous self-locking spiral wound seal --- for
maintaining pressure between chambers in cryogenic wind
tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Ultrasonic transducer with Gaussian radial pressure
distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028

PRESSURE DRAG

Multi-body aircraft with an all-movable center fuselage
actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765

PRESSURE DROP

Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931

PRESSURE EFFECTS

System for stabilizing cable phase delay utilizing a
coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Evacuated, displacement compression mold --- of
tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Internally supported flexible duct joint --- device for
conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
Ballast system for maintaining constant pressure in a
glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Thermal power transfer system using applied potential
difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N92-28754

PRESSURE GAGES

Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Blood pressure measuring system for separating and
separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus for testing a pressure responsive instrument
Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
Ultrahigh vacuum gauge having two collector
electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
Gas ion laser construction for electrically isolating the
pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

PRESSURE GRADIENTS

Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Dual laser optical system and method for studying fluid
flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680

PRESSURE HEADS

Head for high speed spinner having a vacuum chuck
--- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482

PRESSURE MEASUREMENT

- Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
- Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
- Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
- Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
- High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
- Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
- Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
- Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
- Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
- Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609
- Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
- Calibration apparatus for recess mounted pressure transducers
[NASA-CASE-LAR-14724-1] c 35 N92-30030
- High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017
- Pilot-pressure probe for measuring pressure in a hypersonic wind tunnel
[NASA-CASE-LAR-14232-1] c 09 N92-34213
- PRESSURE PULSES**
- Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1-CU] c 35 N92-33016
- PRESSURE REDUCTION**
- Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
- Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
- PRESSURE REGULATORS**
- Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
- Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
- High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
- High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
- Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
- Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
- Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
- Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
- Passive control of pressure loads using porosity
[NASA-CASE-LAR-14547-1] c 34 N92-17909
- PRESSURE SENSORS**
- Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
- Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
- Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
- Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
- Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
- Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
- Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
- Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
- Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
- System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
- Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
- Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
- Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
- Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
- Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
- Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
- Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
- System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
- Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
- Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
- Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
- Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
- Calibration apparatus for recess mounted pressure transducers
[NASA-CASE-LAR-14724-1] c 35 N92-30030
- High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017
- Pilot-pressure probe for measuring pressure in a hypersonic wind tunnel
[NASA-CASE-LAR-14232-1] c 09 N92-34213
- PRESSURE SUITS**
- Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
- Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
- Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
- Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
- Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- Pressure suit joint analyzer
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- Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- Covering solid, film coated surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
- Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
- Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498
- High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
- Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
- Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091
- Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123
- Oxidation resistant coating for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N92-29090
- PROTECTORS**
- Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- PROTEIN CRYSTAL GROWTH**
- Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250
- Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N92-34171
- PROTEINS**
- Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
- Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
- Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
- Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
- Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486
- PROTOCOL (COMPUTERS)**
- Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
- System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
- PROTON FLUX DENSITY**
- Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
- PROXIMITY**
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
- PSEUDOMONAS**
- Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
- PSEUDONOISE**
- Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
- Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
- Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
- Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
- Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
- PULLEYS**
- Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
- Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
- PULLING**
- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- PULMONARY CIRCULATION**
- Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
- PULMONARY FUNCTIONS**
- Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
- PULSE AMPLITUDE**
- System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N89-39885
- Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
- Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
- Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
- Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
- Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
- PULSE AMPLITUDE MODULATION**
- Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
- Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
- PULSE CODE MODULATION**
- Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
- Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
- System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
- Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
- Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
- Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
- Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
- Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
- Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885
- Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
- Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
- Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
- Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513
- PULSE COMMUNICATION**
- Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
- Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
- Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513
- Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
- PULSE DURATION**
- Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
- Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
- Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
- Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
- Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N92-31788
- PULSE DURATION MODULATION**
- Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
- Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-MF-05195] c 10 N71-24861
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
- Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
- Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
- PULSE FREQUENCY MODULATION**
- Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
- Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
- Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
- Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
- PULSE GENERATORS**
- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311

Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016

Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960

Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197

Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395

Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE HEATING
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484

PULSE MODULATION
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE RATE
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479

Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

PULSED LASERS
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654

Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083

PULSED RADIATION
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

PULSES
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

PULTRUSION
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867

Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

PUMP SEALS
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747

Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

PUMPS
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023

Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042

Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028

Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465

Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904

Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154

Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693

Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738

Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818

Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958

Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

PUNCHED CARDS
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908

Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

PUNCHES
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

PURGING
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849

Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

PURIFICATION
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044

Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184

Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 65 N79-17747

Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029

PURITY
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230

Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

Converting a CO2 atmosphere to a high-purity O2 supply
[NASA-CASE-LAR-14398-1] c 25 N92-30098

PUSH-PULL AMPLIFIERS
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351

Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

PUSHING
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PYLONS
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

PYRAMIDS
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

PYRIDINES
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

PYROELECTRICITY
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

PYROGEN
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275

PYROLYSIS
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261

Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

PYROLYTIC GRAPHITE
Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942

Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668

Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208

PYROLYTIC MATERIALS
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623

PYROMETERS
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975

Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132

PYROTECHNICS
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958

Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

PYRRONES (TRADEMARK)
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Q

Q SWITCHED LASERS
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425

Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817

Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N92-31788

Q VALUES
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

QUADRANTS

Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

QUADRATIC PROGRAMMING

Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

QUADRATURES

Automatic quadrature control and measuring system ---
using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017

QUALITATIVE ANALYSIS

Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Analysis of volatile organic compounds --- trace amounts
of organic volatiles in gas samples
[NASA-CASE-MS-C-14428-1] c 23 N77-17161
Fluid sample collection and distribution system ---
qualitative analysis of aqueous samples from several
points
[NASA-CASE-MS-C-16841-1] c 34 N79-24285

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Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for detecting the amount of material in a
resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Nondispersive gas analyzing method and apparatus
wherein radiation is serially passed through a reference
and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Analysis of volatile organic compounds --- trace amounts
of organic volatiles in gas samples
[NASA-CASE-MS-C-14428-1] c 23 N77-17161
Electrophotolysis oxidation system for measurement of
organic concentration in water
[NASA-CASE-MS-C-16497-1] c 25 N82-12166
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

QUANTUM THEORY

III-V photocathode with nitrogen doping for increased
quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

QUANTUM WELLS

Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
Growth of III-V films by control of MBE growth front
stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035

QUARTZ

Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Method for attaching a fused-quartz mirror to a
conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Ampoule sealing apparatus and process --- for housing
a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

QUARTZ LAMPS

High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Light shield and cooling apparatus --- high intensity
ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

QUEUEING THEORY

Neural-network dedicated processor for solving
competitive assignment problems
[NASA-CASE-NPO-17781-1-CU] c 60 N92-17884

QUINOXALINES

Polyphenylquinoxalines containing pendant
phenylethynyl and ethynyl groups --- for thermoplastic
resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Polyphenylquinoxalines via aromatic nucleophilic
displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

R

RACKS (FRAMES)

Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Thrust-isolating mounting --- characteristics of support
for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Automated syringe sampler --- remote sampling of air
and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

RADAR ANTENNAS

Radar antenna system for acquisition and tracking
Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Variable beamwidth antenna --- with multiple beam,
variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
Highly efficient antenna system using a corrugated horn
and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Baseband signal combiner for large aperture antenna
array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

RADAR ATTENUATION

FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR BEACONS

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

RADAR BEAMS

Method and apparatus for measuring frequency and
phase difference
[NASA-CASE-MS-C-20865-1] c 32 N87-18692

RADAR CROSS SECTIONS

Almond test body --- for microwave anechoic
chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
Method and apparatus for sensor fusion
[NASA-CASE-MS-C-21334-1] c 32 N91-25317

RADAR DATA

Charge-coupled device data processor for an airborne
imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
Pipeline synthetic aperture radar data compression
utilizing systolic binary tree-searched architecture for
vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Generation of topographic terrain models utilizing
synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

RADAR DETECTION

Method and apparatus for measuring frequency and
phase difference
[NASA-CASE-MS-C-20865-1] c 32 N87-18692

RADAR ECHOES

Charge-coupled device data processor for an airborne
imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR EQUIPMENT

Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR IMAGERY

Method of locating persons in distress --- by using radar
imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
Multibeam single frequency synthetic aperture radar
processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Radar target for remotely sensing hydrological
phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Real-time multiple-look synthetic aperture radar
processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Multibeam single frequency synthetic aperture radar
processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Method and apparatus for contour mapping using
synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
Method for providing a polarization filter for processing
synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
Method for detecting surface motions and mapping small
terrestrial or planetary surface deformations with synthetic
aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
Generation of topographic terrain models utilizing
synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

RADAR MEASUREMENT

Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370

RADAR RANGE

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

RADAR RECEIVERS

Polarization diversity monopulse tracking receiver
Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

RADAR RECEPTION

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

RADAR REFLECTORS

Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Method of locating persons in distress --- by using radar
imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267

RADAR TARGETS

Radar target for remotely sensing hydrological
phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

RADAR TRACKING

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Polarization diversity monopulse tracking receiver
Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

RADAR TRANSMITTERS

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

RADIAL DISTRIBUTION

Ultrasonic transducer with Gaussian radial pressure
distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

RADIAL FLOW

Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459

RADIANCE

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

RADIANT COOLING

Direct radiation cooling of the collector of linear beam
tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method for attaching a fused-quartz mirror to a
conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424

RADIANT FLUX DENSITY

High intensity radiant energy pulse source having means
for opening shutter when light flux has reached a desired
level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

RADIANT HEATING

High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Ceramic insulation for radiant heating environments and
method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Portable linear-focused solar thermal energy collecting
system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
High thermal power density heat transfer --- thermionic
converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399

RADIATION

Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Analog to digital converter for two-dimensional radiant
energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Memory device for two-dimensional radiant energy array
computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709

RADIATION ABSORPTION

NDIR gas analyzer based on absorption modulation
ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Method for making an aluminum or copper substrate
panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469

- Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
- RADIATION COUNTERS**
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- RADIATION DAMAGE**
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- RADIATION DETECTORS**
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

- Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
- RADIATION DISTRIBUTION**
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
- RADIATION DOSAGE**
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
- RADIATION EFFECTS**
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627
- RADIATION HARDENING**
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
- RADIATION HAZARDS**
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- RADIATION MEASUREMENT**
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
- RADIATION MEASURING INSTRUMENTS**
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
- RADIATION MEDICINE**
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- RADIATION PROTECTION**
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

- RADIATION SHIELDING**
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Propellant feed isolator Patent
[NASA-CASE-XLE-10210-1] c 28 N71-26781
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151
- RADIATION SOURCES**
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N92-33012
Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029
- RADIATION SPECTRA**
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
- RADIATION THERAPY**
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- RADIATION TOLERANCE**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- RADIATIVE HEAT TRANSFER**
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- RADIATORS**
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
- RADIO ANTENNAS**
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

RADIO ASTRONOMY
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO BEACONS
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594

Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

RADIO COMMUNICATION
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

RADIO CONTROL
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202

Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

RADIO EQUIPMENT
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

RADIO FREQUENCIES
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323

Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430

Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388

Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321

Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253

Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454

Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011

Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871

Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N92-33611

RADIO FREQUENCY DISCHARGE
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245

RADIO FREQUENCY HEATING
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

RADIO FREQUENCY INTERFERENCE

Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598

System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982

Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

RADIO FREQUENCY SHIELDING

Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-12115-1] c 09 N73-28083

RADIO INTERFEROMETERS

System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

RADIO PROBING

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

RADIO RECEIVERS

Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775

Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253

Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

Miniature modular microwave end-to-end receiver
[NASA-CASE-NPO-18713-1-CU] c 32 N92-30103

RADIO RELAY SYSTEMS

Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900

Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

RADIO SIGNALS

Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO SOURCES (ASTRONOMY)

Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

RADIO STARS

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

RADIO TELEMETRY

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

RADIO TELESCOPES

Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

RADIO TRANSMITTERS

Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194

Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

RADIO WAVES

Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

RADIOACTIVE ISOTOPES

Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031

Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876

Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIOBIOLOGY

Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681

Extra-corporeal blood access, sensing, and radiation methods and apparatuses
[NASA-CASE-MSC-21775-1] c 52 N92-11627

RADIOGRAPHY

Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613

Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737

Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

RADIOLOGY

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

RADIOLYSIS

Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458

RADIOMETERS

Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323

Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477

Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409

Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437

Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861

Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N92-29117

RADIOSONDES

Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

RAIN

Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334

Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

RAMJET ENGINES

Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899

Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

RAMPS (STRUCTURES)

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

RANDOM ACCESS MEMORY

Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803

Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438

RANDOM LOADS

Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003

RANDOM NOISE

Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844

Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148

Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515

Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308

Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

RANDOM NUMBERS
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

RANGE (EXTREMES)
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

RANGE AND RANGE RATE TRACKING
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958

RANGE FINDERS
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

RANGEFINDING
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

RARE EARTH COMPOUNDS
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

RARE GASES
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

RAREFIED GASES
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

RASTER SCANNING
Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154
Rotating-unbalanced-mass devices and methods for scanning balloon-borne experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010

RATES (PER TIME)
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Disk memory device
[NASA-CASE-GSC-13196-1] c 60 N92-29132

RAY TRACING
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

RC CIRCUITS
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172

Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

REACTION BONDING
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538

REACTION CONTROL
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

REACTION KINETICS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

REACTION PRODUCTS
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

REACTION TIME
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

REACTION WHEELS
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

REACTIVITY
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

REACTOR CORES
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

REACTOR DESIGN
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

REACTOR MATERIALS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

REACTOR PHYSICS
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

READ-ONLY MEMORY DEVICES
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

READERS
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

READING
Page turning system
[NASA-CASE-GSC-13415-1] c 37 N92-33616

READOUT
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542

REAL TIME OPERATION
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
Real-time image difference detection using a polarization rotation spacial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128
Method for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N92-15122
Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864
Improved real-time imaging spectrometer
[NASA-CASE-NPO-18410-1-CU] c 74 N92-29832
Storage control system
[NASA-CASE-LAR-14651-1] c 82 N92-30386
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022
Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N92-33028

REATTACHED FLOW
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

REBREATHING
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

RECEIVERS
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

- Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143
- RECIPROCATING**
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
- RECOMBINATION REACTIONS**
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
- RECONSTRUCTION**
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
- RECORDING HEADS**
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- RECORDING INSTRUMENTS**
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
- RECOVERABILITY**
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
- RECOVERABLE LAUNCH VEHICLES**
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
- RECOVERABLE SPACECRAFT**
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
- RECOVERY PARACHUTES**
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
- RECTANGULAR PANELS**
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
- RECTIFIERS**
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- RECTUM**
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- REDOX CELLS**
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

REDUCED GRAVITY

- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968
Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083
Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231
- REDUCTION (CHEMISTRY)**
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- REDUNDANCY**
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- REDUNDANT COMPONENTS**
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- REELS**
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- REENTRY COMMUNICATION**
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284
- REENTRY SHIELDING**
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062

- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
- REENTRY TRAJECTORIES**
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
- REENTRY VEHICLES**
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
- REFERENCE SYSTEMS**
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- REFINING**
Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
- REFLECTANCE**
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135
- REFLECTED WAVES**
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
- REFLECTING TELESCOPES**
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- REFLECTION**
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- REFLECTOMETERS**
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465

- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Visible and infrared polarization ratio
spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
- REFLECTOR ANTENNAS**
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Double-loop frequency-selected surfaces for
multifrequency division multiplexing in a dual-reflector
antenna
[NASA-CASE-NPO-18701-1-CU] c 32 N92-30391
- REFLECTORS**
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Spectroscope equipment using a slender cylindrical
reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Multi-purpose antenna employing dish reflector with
plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
Ultrasonic angle beam standard reflector --- ultrasonic
nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-18869-1-CU] c 74 N86-33138
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Reflection oscillators employing series resonant
crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
New core design for use with precision composite
reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
Method and apparatus for phasing segmented mirror
arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122
- REFRACTION**
Method and apparatus for second-rank tensor
generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918
- REFRACTIVITY**
The 2 deg/90 deg laboratory scattering photometer ---
particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Chromatically corrected virtual image visual display ---
reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Dual laser optical system and method for studying fluid
flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
Dynamic range compression/expansion of light beams
by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
Self-collimated unstable resonator semiconductor
laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
Dynamic aperture fringe discriminator
[NASA-CASE-NPO-18478-1-CU] c 74 N92-30084
- REFRACTORY COATINGS**
Refractory coatings and method of producing the
same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Method for repair of thin glass coatings --- on space
shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- REFRACTORY MATERIALS**
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

- Method of manufacturing semiconductor devices using
refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
- High temperature furnace for melting materials in
space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature resistant cermet and ceramic
compositions --- for thermal resistant insulators and
refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic
compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Fibrous refractory composite insulation --- shielding
reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Catalytic trimerization of aromatic nitriles and
triaryl-s-triazine ring cross-linked high temperature
resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Improved refractory coatings --- sputtered coatings on
substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Adjustable high emittance gap filler --- reentry shielding
for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Attachment system for silica tiles --- thermal protection
for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Densification of porous refractory substrates --- space
shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory
substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
High temperature silicon carbide impregnated insulating
fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Apparatus for accurately preloading auger attachment
means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
High temperature resistant polyimide from tetra ester,
diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Boron-containing organosilane polymers and ceramic
materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726
Boron-carbon-silicon polymers and ceramic and a
process for the production thereof
[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160
- REFRACTORY METALS**
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Method of producing refractory bodies having controlled
porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of producing refractory composites containing
tantalum carbide, hafnium carbide, and hafnium boride
Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Fused silicide coatings containing discrete particles for
protecting niobium alloys --- used in space shuttle thermal
protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Method of making an apertured casting --- using
duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
One step HIP canning of powder metallurgy
composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
High temperature refractory member with radiation
emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
- REFRIGERATING**
Helium refrigerator and method for decontaminating the
refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

- Ultra-high temperature stability Joule-Thomson cooler
with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
- REFRIGERATING MACHINERY**
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Vibration isolation and pressure compensation
apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
- REFRIGERATORS**
Intermittent type silica gel adsorption refrigerator
Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Thermal compensator for closed-cycle helium
refrigerator --- assuring constant temperature for an
infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Reciprocating magnetic refrigerator employing tandem
porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat
conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Self-actuating heat switches for redundant refrigeration
systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
Two stage sorption type cryogenic refrigerator including
heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
Multicomponent gas sorption Joule-Thomson
refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
Three-stage sorption type cryogenic refrigeration system
and method employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N92-17674
- REFUELING**
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
- REGENERATION (ENGINEERING)**
Switching circuit employing regeneratively connected
complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Cryogenic regenerator including saran-carbon heat
conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Regenerative Cu/La zeolite supported desulfurizing
sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
- REGENERATION (PHYSIOLOGY)**
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
Method and apparatus for bio-regenerative life support
system
[NASA-CASE-MSC-21629-1] c 54 N91-31803
- REGENERATIVE COOLING**
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method of making a regeneratively cooled combustion
chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Three-stage sorption type cryogenic refrigeration system
and method employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N92-17674

REGENERATIVE FUEL CELLS

- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

REGENERATORS

- Code regenerative clean-up loop transponder for a mu-type regenerative system
[NASA-CASE-NPO-11707] c 07 N73-25161
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577

REGISTERS (COMPUTERS)

- Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800

REINFORCED PLASTICS

- Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125

REINFORCEMENT (STRUCTURES)

- Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Thermally activated retainer means
[NASA-CASE-MS-C-21793-1] c 16 N91-28186

REINFORCEMENT RINGS

- Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

REINFORCING FIBERS

- Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199

RELAXATION OSCILLATORS

- Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882

RELAY SATELLITES

- Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

RELEASING

- Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Quick release hook tape Patent
[NASA-CASE-XMS-10680-1] c 15 N71-25975
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MS-C-20080-1] c 37 N85-30334
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

- Preloadable vector sensitive latch
[NASA-CASE-MS-C-20910-1] c 37 N87-25582
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Double swivel toggle release
[NASA-CASE-MS-C-21436-1] c 37 N90-21390
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MS-C-21517-1] c 31 N92-16161

RELIABILITY ANALYSIS

- Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

RELIABILITY ENGINEERING

- Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Reconfiguring redundancy management
[NASA-CASE-MS-C-18498-1] c 60 N82-29013
Phase sensitive guidance sensor for wire following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742

RELIEF MAPS

- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

RELIEF VALVES

- Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Ultra-high temperature Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156

REMANENCE

- Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101

REMOTE CONTROL

- Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460

- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MS-C-20979-1] c 37 N87-22985
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved docking alignment system
[NASA-CASE-MS-C-21372-1] c 35 N89-12842
Magnetic attachment mechanism
[NASA-CASE-MS-C-21095-1] c 37 N89-12866
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
End effector with astronaut foot restraint
[NASA-CASE-MS-C-21721-1] c 54 N92-16559
Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MS-C-21806-1] c 74 N92-17863
Method and apparatus for preloading a joint by remotely operable means
[NASA-CASE-MS-C-21940-1] c 37 N92-30540

REMOTE HANDLING

- Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N88-26398

REMOTE MANIPULATOR SYSTEM

- Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MS-C-20979-1] c 37 N87-22985
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
End effector with astronaut foot restraint
[NASA-CASE-MS-C-21721-1] c 54 N92-16559

REMOTE SENSING

- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710
Programmable hyperspectral image mapper with on-array processing
[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104

REMOTE SENSORS

- Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
- Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
- Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
- Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
- Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- REMOTELY PILOTED VEHICLES**
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076
- REMOVAL**
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
- Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032
- REPEATERS**
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- REPLACING**
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
- High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
- Bearing servicing tool
[NASA-CASE-MSC-21881-1] c 37 N92-30082
- RESCUE OPERATIONS**
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
- Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
- Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
- Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
- Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113
- RESEARCH AIRCRAFT**
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- RESEARCH AND DEVELOPMENT**
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
- RESEARCH FACILITIES**
Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201
- RESEARCH VEHICLES**
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

RESERVOIRS

- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
- RESIDUAL STRESS**
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
- Method and apparatus for determination of material residual stress
[NASA-CASE-GSC-13451-1] c 39 N92-23549
- RESILIENCE**
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- RESIN BONDING**
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- RESIN MATRIX COMPOSITES**
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
- Process for preparing phthalocyanine polymer from imide containing bispthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
- Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
- Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
- Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
- Poly 1, 2, 4-triazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14440-1] c 23 N92-10066
- Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199
- Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N92-21711
- Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
[NASA-CASE-LAR-14954-1] c 24 N92-34214
- RESINS**
Modified polyurethane foams for fuel-free Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
- Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
- Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Fire and heat resistant laminating resins based on maleimide and citraconimide substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- Fire and heat resistant laminating resin based on maleimide and citraconimide substituted 1-(diorgano oxyphosphonyl-methyl)-2,4-2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
- A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
- Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
- Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307
- Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014
- RESISTANCE**
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- RESISTANCE HEATING**
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71-NPO-15494-2] c 35 N85-34373
- RESISTANCE THERMOMETERS**
Sub-Kelvin resistance thermometer
[NASA-CASE-GSC-13406-1] c 35 N92-33614
- RESISTORS**
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
- Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- RESOLUTION**
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
- Spectroscopy equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
- RESOLVERS**
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
- RESONANCE**
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
- RESONANT FREQUENCIES**
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
- Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
- Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

- Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
- Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
- Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
- Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-34174
- RESONATOR VIBRATION**
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N92-33611
- RESONATORS**
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
- Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
- Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
- RESOURCE ALLOCATION**
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
- RESPIRATION**
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
- RESPIRATORS**
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- RESPIRATORY RATE**
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
- Respiratory analysis system and method
[NASA-CASE-MS-C-13436-1] c 05 N73-32015
- Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728
- RESPIROMETERS**
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728
- RESPONSE TIME (COMPUTERS)**
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
- RESPONSES**
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176
- RESTARTABLE ROCKET ENGINES**
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
- Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- RESTORATION**
Multiresponse imager and imaging process for improved resolution
[NASA-CASE-LAR-14779-1] c 74 N92-29951
- RESUSCITATION**
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
- RETAINING**
Floating nut retention system
[NASA-CASE-MS-C-16938-1] c 37 N80-23653
- Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
- Payload retention device
[NASA-CASE-MS-C-21906-1] c 37 N92-28727
- RETARDERS (DEVICES)**
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- RETARDING**
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
- RETICLES**
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
- Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
- Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
- Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
- Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886
- Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- RETINA**
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MS-C-21509-1] c 74 N91-25840
- Portable dynamic fundus instrument
[NASA-CASE-MS-C-21675-1] c 52 N92-28755
- RETINAL IMAGES**
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- RETRACTABLE EQUIPMENT**
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
- Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
- Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
- Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
- CAM controlled retractable door latch
[NASA-CASE-MS-C-20304-1] c 37 N82-31690
- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- Retractable tool bit having latch type catch mechanism
[NASA-CASE-GSC-13359-1] c 37 N92-23378
- RETROFIRING**
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
- Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
- RETROREFLECTION**
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
- Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
- Multiperiod-grating surface-emitting lasers
[NASA-CASE-NPO-17763-1-CU] c 36 N92-17862
- RETROREFLECTORS**
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
- Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
- Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034
- RETROCKET ENGINES**
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
- RETURN TO EARTH SPACE FLIGHT**
Assured crew return vehicle
[NASA-CASE-MS-C-21536-1] c 18 N92-21999
- REUSABLE HEAT SHIELDING**
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Thermally activated retainer means
[NASA-CASE-MS-C-21793-1] c 16 N91-28186
- REUSABLE ROCKET ENGINES**
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
- REUSABLE SPACECRAFT**
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
- Space shuttle vehicle and system
[NASA-CASE-MS-C-12433] c 31 N73-14854
- Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- REUSE**
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
- Reusable captive blind fastener
[NASA-CASE-MS-C-18742-1] c 37 N82-26673
- Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
- Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
- REVERSE OSMOSIS**
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- REVERSED FLOW**
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
- Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
- Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
- Reverse pitch fan with divided splitter
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- Casting propellant in rocket engine
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- Supersonic-combustion rocket
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- Rocket chamber and method of making
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- System for imposing directional stability on a rocket-propelled vehicle
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- Ion thruster cathode Patent Application
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- Injector-valve device Patent
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- Elastic universal joint Patent
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- Passively regulated water electrolysis rocket engine Patent
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- Method of igniting solid propellants Patent
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- Thruster maintenance system Patent
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- Purge device for thrust engines Patent
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- Altitude simulation chamber for rocket engine testing
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- Method of making apparatus for sensing temperature
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- Magneto-plasma-dynamic arc thruster
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- Ion beam thruster shield
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- General purpose rocket furnace
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- Diffuser/ejector system for a very high vacuum environment
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- Ring-cusp ion thruster with shell anode
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- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
- Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142
- Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N92-10054
- Accelerometer method and apparatus for integral display and control functions
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- ROCKET EXHAUST**
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
- Rocket thrust throttling system
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- Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
- Hybrid plume plasma rocket
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- ROCKET FIRING**
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
- ROCKET FLIGHT**
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
- ROCKET LAUNCHING**
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- ROCKET LININGS**
Heat exchanger and method of making --- rocket lining
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- ROCKET NOZZLES**
Gimbaled, partially submerged rocket nozzle Patent
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- Rocket thrust chamber Patent
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- Self-sealing, unbonded, rocket motor nozzle closure Patent
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- Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
- Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
- Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
- Apparatus and method for protecting a photographic device Patent
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- Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
- Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
- Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
- Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
- Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
- Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
- Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
- Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
- Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
- Hybrid plume plasma rocket
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- Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508
- Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N92-17872
- ROCKET OXIDIZERS**
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[NASA-CASE-NPO-11975-1] c 28 N74-33209
- ROCKET PROPELLANTS**
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[NASA-CASE-XMS-04890-1] c 15 N70-22192
- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
- ROCKET TEST FACILITIES**
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
- Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
- ROCKET THRUST**
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
- Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
- Solid propellant rocket motor
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[NASA-CASE-XMS-05731] c 35 N75-29382
- ROCKET VEHICLES**
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
- Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
- Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
- Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
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[NASA-CASE-GSC-12322-1] c 37 N80-14398
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Scanning aspect sensor employing an apertured disc and a commutator
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Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
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- Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
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[NASA-CASE-XNP-09755] c 46 N74-23069
- Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- RODS**
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
- Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
- Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
- Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493
- Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028
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[NASA-CASE-GSC-10514-1] c 14 N72-20379
- ROLLER BEARINGS**
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
- Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
- Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
- Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
- Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
- Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N92-29138
- ROLLERS**
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
- Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
- Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331
- Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728
- Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N92-34173
- ROLLING**
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N92-28754
- Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031
- ROLLING CONTACT LOADS**
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
- ROLLING MOMENTS**
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
- ROOM TEMPERATURE**
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
- ROTARY GYROSCOPES**
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
- ROTARY STABILITY**
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
- Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
- Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- ROTARY WING AIRCRAFT**
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
- Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
- High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224
- ROTARY WINGS**
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

ROTATING BODIES

Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485

Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400

Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139

Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158

Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459

Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112

Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422

Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827

Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082

Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222

Quick-connect fasteners for assembling devices in space
[NASA-CASE-MSC-21648-1] c 37 N92-24051

Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952

ROTATING CYLINDERS

Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482

Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

ROTATING DISKS

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362

Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697

Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

ROTATING ELECTRICAL MACHINES

Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999

Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

ROTATING ENVIRONMENTS

Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

ROTATING GENERATORS

Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813

Wind wheel electric power generator
[NASA-CASE-MFS-23151-1] c 44 N80-21828

ROTATING MIRRORS

Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605

Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674

Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304

Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

ROTATING SHAFTS

Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726

Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136

Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255

Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125

Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932

Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458

Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436

Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314

Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711

Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496

Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497

Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084

Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333

Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N92-30097

ROTATION

Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982

Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045

Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462

Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492

System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233

Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842

Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289

Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731

Hybrid butterfly valve
[NASA-CASE-GSC-00004-1] c 37 N91-14609

Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387

Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922

Helix translation device --- shim for precision displacements
[NASA-CASE-GSC-13141-1] c 37 N92-23548

Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952

Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010

Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N92-34173

ROTOR AERODYNAMICS

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

ROTOR BLADES

Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515

Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057

ROTOR BLADES (TURBOMACHINERY)

Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928

Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154

Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300

Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226

Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

ROTOR LIFT

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTOR SPEED

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

ROTORCRAFT AIRCRAFT

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTORS

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895

Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585

Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548

Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420

Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515

Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155

Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099

RUBBER

Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455

RUBBER COATINGS

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

RUBY

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

RUBY LASERS

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

RUNWAY ALIGNMENT

Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

RUNWAY CONDITIONS

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

RUNWAY LIGHTS

Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

RUNWAYS

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120

RUPTURING

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

S**SABOT PROJECTILES**

Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

SAFETY

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

SAFETY DEVICES

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

SAFETY FACTORS

Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

SAHA EQUATIONS

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

SALT BATHS

Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

SAMARIUM

Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

SAMPLERS

Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SAMPLES

Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

SAMPLING

Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N92-21712

SANDWICH STRUCTURES

Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

SAPPHIRE

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

SATELLITE ANTENNAS

Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

SATELLITE ATTITUDE CONTROL

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Satellite despun device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

SATELLITE COMMUNICATION

Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

SATELLITE CONTROL

Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

SATELLITE DESIGN

Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081

SATELLITE INSTRUMENTS

Reaction wheel scanner Patent
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SATELLITE NETWORKS

Satellite interface synchronization system
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SATELLITE OBSERVATION

Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

SATELLITE ORBITS

Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
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Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

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Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

SATELLITE POWER TRANSMISSION

Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

- Method for remotely powering a device such as a lunar rover
[NASA-CASE-LAR-14789-1] c 37 N92-30388
- SATELLITE ROTATION**
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
- SATELLITE TELEVISION**
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
- SATELLITE TRACKING**
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
- SATELLITE TRANSMISSION**
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
- SATELLITE-BORNE INSTRUMENTS**
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- SATELLITE-BORNE PHOTOGRAPHY**
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
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- SATURABLE REACTORS**
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
- SATURATION**
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
- SAWS**
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
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- SAWTOOTH WAVEFORMS**
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
- SCANNERS**
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Scanner --- photography from a spin stabilized synchronous satellite
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- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
- Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769
- SCANNING**
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
- SCATTERING CROSS SECTIONS**
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
- SCENE ANALYSIS**
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- SCHLIEREN PHOTOGRAPHY**
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
- Schlieren system for visualizing the flow within a pipe of circular cross-section
[NASA-CASE-LAR-13944-1] c 35 N92-11336
- SCHMIDT CAMERAS**
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
- SCHMIDT TELESCOPES**
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
- SCHOOLS**
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
- SCHOTTKY DIODES**
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
- Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146
- Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
- SCIENTIFIC SATELLITES**
Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201
- SCOOPS**
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

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- Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- SCRAMBLING (COMMUNICATION)**
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
- SCREWS**
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
- Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
- Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
- Three point lead screw positioning apparatus
[NASA-CASE-LEW-15216-1] c 37 N92-17678
- SCRUBBERS**
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
- Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- SEA ICE**
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
- SEA STATES**
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- SEA SURFACE TEMPERATURE**
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- SEALERS**
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210
- SEALING**
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
- High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
- Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
- Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
- O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175
- Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N91-25202
- Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
- Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091
- Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N92-17872
- SEALS (STOPPERS)**
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
- Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
- Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087

Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577

Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469

Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711

Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MS-C-18134-1] c 37 N81-15363

Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MS-C-18422-1] c 37 N82-16408

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751

Turbomachinery rotor support with damping
[NASA-CASE-MFS-26345-1] c 37 N91-14608

High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

Thruster sealing system and apparatus
[NASA-CASE-MS-C-21898-1] c 37 N92-17872

High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

Check valve with poppet damping mechanism
[NASA-CASE-MS-C-21903-1] c 37 N92-30101

SEAMS (JOINTS)

Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301

SEARCHING

Dynamic pattern matcher using incomplete data
[NASA-CASE-MS-C-21415-1-SB] c 61 N92-17860

SEAT BELTS

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

SEATS

Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733

Method and apparatus for waste collection and storage
[NASA-CASE-MS-C-21025-3] c 54 N91-26747

SECONDARY EMISSION

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

SECONDARY FLOW

Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N92-28752

SECTORS

Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921

SECURITY

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299

Random digital encryption secure communication system
[NASA-CASE-MS-C-16462-1] c 32 N82-31583

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SEEDS

Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499

SEGMENTS

Method and apparatus for making curved reflectors
[NASA-CASE-XLE-08917] c 15 N71-15597

Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N92-22034

Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122

SEISMIC WAVES

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

SEISMOGRAPHS

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SELECTIVE SURFACES

Double-loop frequency-selected surfaces for multifrequency division multiplexing in a dual-reflector antenna
[NASA-CASE-NPO-18701-1-CU] c 32 N92-30391

SELECTORS

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777

Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

SELF ADAPTIVE CONTROL SYSTEMS

Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785

SELF ALIGNMENT

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238

Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423

Formation of self-aligned guard rings for monolithic Schottky-barrier diode arrays
[NASA-CASE-NPO-17734-1-CU] c 33 N92-10146

SELF ERECTING DEVICES

Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135

Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676

Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579

Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102

Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658

Foldable self-erecting joint
[NASA-CASE-MS-C-20635-1] c 18 N87-14373

Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N92-24057

SELF FOCUSING

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

SELF LUBRICATING MATERIALS

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984

Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

SELF LUBRICATION

Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

SELF MANEUVERING UNITS

Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336

Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

SELF PROPAGATION

Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

SELF SEALING

Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845

Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SELF TESTS

Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

SEMICONDUCTOR DEVICES

Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926

Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422

A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560

Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607

Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354

Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721

Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892

Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899

Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992

Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820

Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199

Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447

- Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
- Semiconductor transducer device
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- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
- Process for fabricating SiC semiconductor devices
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- Semiconductor projectile impact detector
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- Apparatus for measuring semiconductor device resistance
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- Electrical power generating system --- for windpowered generation
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- Pyroelectric detector arrays
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- Imaging X-ray spectrometer
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- Epitaxial thinning process
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- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
- Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
- Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
- Method for anisotropic etching in the manufacture of semiconductor devices
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- SEMICONDUCTOR DIODES**
- Method of fabricating germanium and gallium arsenide devices
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- Millimeter-wave monolithic diode-grid frequency multiplier
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- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
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- SEMICONDUCTOR JUNCTIONS**
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- Pressure sensitive transducers Patent
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- Semiconductor surface protection material
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- High voltage planar multijunction solar cell
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- Screen printed interdigitated back contact solar cell
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- Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
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- Thin solar cell and lightweight array
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- SEMICONDUCTOR LASERS**
- Field induced gap infrared detector
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- Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
- Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
- Self-collimated unstable resonator semiconductor laser
[NASA-CASE-NPO-18386-1-CU] c 36 N92-17899
- SEMICONDUCTORS (MATERIALS)**
- Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
- Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
- Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
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[NASA-CASE-LAR-10728-1] c 14 N73-12445
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
- Vapor deposition apparatus --- semiconductors and gallium arsenides
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- Application of semiconductor diffusants to solar cells by screen printing
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- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
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- Voltage feed through apparatus having reduced partial discharge
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- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
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- Epitaxial thinning process
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- Method for determining the point of zero zeta potential of semiconductor
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- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
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- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
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- Liquid encapsulated float zone process and apparatus
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- Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
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- Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
- Self-collimated unstable resonator semiconductor laser
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- Hybridization of detector array and integrated circuit for readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542
- Sub-Kelvin resistance thermometer
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- Heat transfer device
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- SENSITIVITY**
- Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
- SENSITOMETRY**
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- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- Trace water sensor
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- Method and apparatus for determination of material residual stress
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- SENSORY PERCEPTION**
- Tactile sensing means for prosthetic limbs
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- SEPARATED FLOW**
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[NASA-CASE-XLE-00208] c 28 N70-34294
- Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- Method of forming a multiple layer dielectric and a hot film sensor therewith
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- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
- SEPARATION**
- Acoustophoresis method and apparatus
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- Condenser - Separator
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- Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
- Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
- Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
- Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
- Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
- Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
- Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
- Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
- Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
- Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
- Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236

Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

SEQUENCING

Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165

MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210

Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175

Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634

Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

SEQUENTIAL ANALYSIS

Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209

Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144

SEQUENTIAL COMPUTERS

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SEQUENTIAL CONTROL

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503

Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

High level language-based robotic control system
[NASA-CASE-NPO-17918-2-CU] c 63 N92-17895

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Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

SERVICE LIFE

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248

Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

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Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147

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Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954

Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360

Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754

Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556

Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148

Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139

Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123

Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424

Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

SERVO MECHANISMS

Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662

Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952

A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613

Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456

Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855

Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479

Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426

Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483

Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975

Closed-loop motor control using high-speed fiber optics
[NASA-CASE-MSC-21806-1] c 74 N92-17863

Controlling under-actuated robot arms using a high speed dynamics process
[NASA-CASE-NPO-18498-1-CU] c 37 N92-24043

Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083

SERVO MOTORS

Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861

Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427

Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855

Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563

Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

SEWAGE TREATMENT

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

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Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036

SHAFTS (MACHINE ELEMENTS)

Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505

Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947

Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201

Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073

Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805

Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467

Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488

High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359

Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186

Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493

Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282

Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055

Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155

Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

Magnetostriuctive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N92-15331

System for testing bearings
[NASA-CASE-MFS-28589-1] c 37 N92-17584

J-hook latching device
[NASA-CASE-GSC-13200-1] c 37 N92-21500

Quick-connect fasteners for assembling devices in space
[NASA-CASE-MSC-21648-1] c 37 N92-24051

Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031

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Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

SHAPE OIL

In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452

Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N78-23012

Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

SHALES

Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711

Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

SHAPE CONTROL

Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789

Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817

SHAPE MEMORY ALLOYS

Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

Fastening apparatus having shape memory alloy actuator
[NASA-CASE-MSC-21935-1] c 37 N92-29762

Method and apparatus for preloading a joint by remotely operable means
[NASA-CASE-MSC-21940-1] c 37 N92-30540

Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032

SHAPED CHARGES

Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846

Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008

SHAPERS

Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783

Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536

Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721

SHAPES
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

SHARKS
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

SHARPNESS
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

SHEAR CREEP
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

SHEAR FLOW
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578

SHEAR PROPERTIES
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

SHEAR STRESS
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505

Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410

Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064

Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534

Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954

Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231

SHEARING
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SHELL ANODES
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

SHELLS (STRUCTURAL FORMS)
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

SHIELDING
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198

System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785

Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114

SHIFT REGISTERS
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503

Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897

Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199

Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167

MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210

Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175

A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254

Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175

Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373

Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SHIP HULLS
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

SHOCK ABSORBERS
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159

Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850

Shock absorbing support and restraint means Patent
[NASA-CASE-MSC-01240] c 05 N70-35152

Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679

Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654

Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845

Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354

Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343

Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530

Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092

Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443

Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284

Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420

Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

SHOCK LOADS
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

SHOCK MEASURING INSTRUMENTS
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

SHOCK RESISTANCE
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409

Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHOCK TUBES
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960

Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

SHOCK WAVE INTERACTION
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

SHOCK WAVE LUMINESCENCE
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

SHOCK WAVE PROFILES
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

SHOCK WAVES
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911

Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437

Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822

SHOES
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

SHORT CIRCUITS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146

Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898

Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991

Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537

SHOT PEENING
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

SHOULDERS
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620

Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

SHROUDED NOZZLES
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

SHROUDED TURBINES
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

SHROUDS
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780

Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHUTTERS
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151

SHUTTLE DERIVED VEHICLES
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

SIDE INLETS
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

SIDEBANDS
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567

SIDELobe REDUCTION
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

SIGNAL ANALYSIS
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

- Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal [NASA-CASE-NPO-11302-2] c 32 N74-10132
- Differential phase shift keyed signal resolver [NASA-CASE-MSC-14066-1] c 33 N74-27705
- Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals [NASA-CASE-GSC-11744-1] c 33 N75-26243
- Real time analysis of voiced sounds [NASA-CASE-NPO-13465-1] c 32 N76-31372
- Digital plus analog output encoder [NASA-CASE-GSC-12115-1] c 62 N76-31946
- Serial data correlator/code translator [NASA-CASE-KSC-11025-1] c 32 N83-13323
- Video processor for air traffic control beacon system [NASA-CASE-KSC-11155-1] c 04 N86-19304
- Acoustic emission frequency discrimination [NASA-CASE-MSC-20467-1] c 35 N88-23966
- SIGNAL ANALYZERS**
- System for monitoring signal amplitude ranges [NASA-CASE-XMS-04061-1] c 09 N69-39885
- Sampled data controller Patent [NASA-CASE-GSC-10554-1] c 08 N71-29033
- Family of frequency to amplitude converters [NASA-CASE-MSC-12395] c 09 N72-25257
- Apparatus for statistical time-series analysis of electrical signals [NASA-CASE-MSC-12428-1] c 10 N73-25240
- Pulse stretcher for narrow pulses [NASA-CASE-MSC-14130-1] c 33 N74-32711
- Electronic optical transfer function analyzer [NASA-CASE-MFS-21672-1] c 74 N76-19935
- Speech analyzer [NASA-CASE-GSC-11898-1] c 32 N77-30309
- SIGNAL DETECTION**
- Position location system and method Patent [NASA-CASE-GSC-10087-2] c 21 N71-13958
- Method of detecting impending saturation of magnetic cores [NASA-CASE-ERC-10089] c 23 N72-17747
- Anti-multipath digital signal detector [NASA-CASE-LAR-11827-1] c 32 N77-10392
- Multiple rate digital command detection system with range clean-up capability [NASA-CASE-NPO-13753-1] c 32 N77-20289
- Automatic communication signal monitoring system [NASA-CASE-NPO-13941-1] c 32 N79-10262
- Apparatus and method for stabilized phase detection for binary signal tracking loops [NASA-CASE-MSC-16461-1] c 33 N79-11313
- Method and apparatus for receiving and tracking phase modulated signals [NASA-CASE-MSC-16170-2] c 32 N84-27952
- Vibration analyzer [NASA-CASE-MSC-21408-1] c 37 N91-14607
- Multiple symbol differential detection [NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
- Integrated filter and detector array for spectral imaging [NASA-CASE-NPO-18317-1-CU] c 74 N91-32926
- Real time pre-detection dynamic range compression [NASA-CASE-NPO-18098-1-CU] c 74 N92-33028
- SIGNAL DETECTORS**
- Surface roughness detector Patent [NASA-CASE-XLA-00203] c 14 N70-34161
- Pulse amplitude and width detector Patent [NASA-CASE-XMF-06519] c 09 N71-12519
- System for monitoring the presence of neutrals in a stream of ions Patent [NASA-CASE-XNP-02592] c 24 N71-20518
- Digital modulator and demodulator Patent [NASA-CASE-ERC-10041] c 08 N71-29138
- Coal-shale interface detection system [NASA-CASE-MFS-23720-2] c 43 N80-14423
- Pulse transducer with artifact signal attenuator --- heart rate sensors [NASA-CASE-FRC-11012-1] c 52 N80-23969
- Self-calibrating threshold detector [NASA-CASE-MSC-16370-1] c 35 N81-19427
- Triac failure detector [NASA-CASE-MFS-25607-1] c 33 N83-34190
- Method and apparatus for detecting laminar flow separation and reattachment [NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- SIGNAL DISTORTION**
- Low distortion receiver for bi-level baseband PCM waveforms [NASA-CASE-MSC-14557-1] c 32 N76-16249
- SIGNAL ENCODING**
- Adaptive compression of communication signals Patent [NASA-CASE-XLA-03076] c 07 N71-11266
- Self-calibrating threshold detector [NASA-CASE-MSC-16370-1] c 35 N81-19427
- Random digital encryption secure communication system [NASA-CASE-MSC-16462-1] c 32 N82-31583
- Trellis coded modulation for transmission over fading mobile satellite channel [NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
- SIGNAL GENERATORS**
- Plural recorder system [NASA-CASE-XMS-06949] c 09 N69-21467
- Signal generator [NASA-CASE-XNP-05612] c 09 N69-21468
- Means for generating a sync signal in an FM communication system Patent [NASA-CASE-XNP-10830] c 07 N71-11281
- Array phasing device Patent [NASA-CASE-ERC-10046] c 10 N71-18722
- Sidereal frequency generator Patent [NASA-CASE-XGS-02610] c 14 N71-23174
- Controllers Patent [NASA-CASE-XMS-07487] c 15 N71-23255
- Signal ratio system utilizing voltage controlled oscillators Patent [NASA-CASE-XMF-04367] c 09 N71-23545
- Signal processing apparatus for multiplex transmission Patent [NASA-CASE-NPO-10388] c 07 N71-24622
- Multialarm summary alarm Patent [NASA-CASE-XLE-03061-1] c 10 N71-24798
- Adaptive system and method for signal generation Patent [NASA-CASE-GSC-11367] c 10 N71-26374
- Voltage dropout sensor Patent [NASA-CASE-KSC-10020] c 10 N71-27338
- System for controlling the operation of a variable signal device [NASA-CASE-NPO-11064] c 07 N72-11150
- Digital function generator [NASA-CASE-NPO-11104] c 08 N72-22165
- Hall effect transducer [NASA-CASE-LAR-10620-1] c 09 N72-25255
- Gunn-type solid state devices [NASA-CASE-XER-07895] c 26 N72-25679
- Audio frequency marker system [NASA-CASE-NPO-11147] c 14 N72-27408
- Digital servo control of random sound test excitation --- in reverberant acoustic chamber [NASA-CASE-NPO-11623-1] c 71 N74-31148
- Signal conditioner test set [NASA-CASE-KSC-10750-1] c 35 N75-12270
- System for generating timing and control signals [NASA-CASE-NPO-13125-1] c 33 N75-19519
- Pseudo-noise test set for communication system evaluation --- test signals [NASA-CASE-MFS-22671-1] c 35 N75-21582
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples [NASA-CASE-ARC-10802-1] c 35 N75-30502
- Twin-capacitive shaft angle encoder with analog output signal [NASA-CASE-ARC-10897-1] c 33 N77-31404
- Apparatus for providing a servo drive signal in a high-speed stepping interferometer [NASA-CASE-NPO-13569-2] c 35 N79-14348
- Versatile LDV burst simulator [NASA-CASE-LAR-11859-1] c 35 N79-14349
- Underwater seismic source --- for petroleum exploration [NASA-CASE-NPO-14255-1] c 46 N79-23555
- Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission [NASA-CASE-NPO-14536-1] c 32 N81-14185
- Integrated control system for a gas turbine engine [NASA-CASE-LEW-12594-2] c 07 N81-19116
- Motor power factor controller with a reduced voltage starter [NASA-CASE-MFS-25586-1] c 33 N82-11360
- Combinational logic for generating gate drive signals for phase control rectifiers [NASA-CASE-MFS-25208-1] c 33 N83-10345
- Adaptive reference voltage generator for firing angle control of line-commutated inverters [NASA-CASE-MFS-25215-1] c 33 N83-31953
- Magnetic heading reference [NASA-CASE-LAR-12638-1] c 04 N84-14132
- Brushless DC motor control system responsive to control signals generated by a computer or the like [NASA-CASE-NPO-16420-1] c 33 N86-20681
- SIGNAL MEASUREMENT**
- Amplifier for measuring low-level signals in the presence of high common mode voltage [NASA-CASE-MFS-25868-1] c 33 N86-20670
- SIGNAL MIXING**
- Signal multiplexer [NASA-CASE-XGS-01110] c 07 N69-24334
- Baseband signal combiner for large aperture antenna array [NASA-CASE-NPO-14641-1] c 32 N81-29308
- SIGNAL PROCESSING**
- Adaptive compression of communication signals Patent [NASA-CASE-XLA-03076] c 07 N71-11266
- Television signal scan rate conversion system Patent [NASA-CASE-XMS-07168] c 07 N71-11300
- Difference circuit Patent [NASA-CASE-XNP-08274] c 10 N71-13537
- Correlation function apparatus Patent [NASA-CASE-XNP-00746] c 07 N71-21476
- Sidereal frequency generator Patent [NASA-CASE-XGS-02610] c 14 N71-23174
- Feedback integrator with grounded capacitor Patent [NASA-CASE-XAC-10607] c 10 N71-23669
- Signal processing apparatus for multiplex transmission Patent [NASA-CASE-NPO-10388] c 07 N71-24622
- Television signal processing system Patent [NASA-CASE-NPO-10140] c 07 N71-24742
- Electronic scanning of 2-channel monopulse patterns Patent [NASA-CASE-GSC-10299-1] c 09 N71-24804
- Remodulator filter Patent [NASA-CASE-NPO-10198] c 09 N71-24806
- Video sync processor Patent [NASA-CASE-KSC-10002] c 10 N71-25865
- Transient video signal recording with expanded playback Patent [NASA-CASE-ARC-10003-1] c 09 N71-25866
- Phase multiplying electronic scanning system Patent [NASA-CASE-NPO-10302] c 10 N71-26142
- Variable frequency nuclear magnetic resonance spectrometer Patent [NASA-CASE-XNP-09830] c 14 N71-26266
- Digital modulator and demodulator Patent [NASA-CASE-ERC-10041] c 08 N71-29138
- Digital pulse width selection circuit Patent [NASA-CASE-XLA-07788] c 09 N71-29139
- Phase shift circuit apparatus [NASA-CASE-ARC-10269-1] c 10 N72-16172
- Contourograph system for monitoring electrocardiograms [NASA-CASE-MSC-13407-1] c 10 N72-20225
- Recorder using selective noise filter [NASA-CASE-ERC-10112] c 07 N72-21119
- Logarithmic function generator utilizing an exponentially varying signal in an inverse manner [NASA-CASE-ERC-10267] c 09 N72-23173
- Flexible computer accessed telemetry [NASA-CASE-NPO-11358] c 07 N72-25172
- Data processor with conditionally supplied clock signals [NASA-CASE-GSC-10975-1] c 08 N73-13187
- Multichannel telemetry system [NASA-CASE-NPO-11572] c 07 N73-16121
- Measurement system [NASA-CASE-MFS-20658-1] c 14 N73-30386
- Digital to analog conversion apparatus [NASA-CASE-MSC-12458-1] c 08 N73-32081
- Fluid pressure amplifier and system [NASA-CASE-LAR-10868-1] c 33 N74-11050
- Low level signal limiter [NASA-CASE-XLE-04791] c 32 N74-22096
- Miniature multichannel biotelemetry system [NASA-CASE-NPO-13065-1] c 52 N74-26625
- Apparatus and method for processing Korotkov sounds --- for blood pressure measurement [NASA-CASE-MSC-13999-1] c 52 N74-26626
- Pulse stretcher for narrow pulses [NASA-CASE-MSC-14130-1] c 33 N74-32711
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components [NASA-CASE-ARC-10466-1] c 60 N75-13539
- Signal conditioning circuit apparatus --- with constant input impedance [NASA-CASE-ARC-10348-1] c 33 N75-19518
- Television noise reduction device [NASA-CASE-MSC-12607-1] c 32 N75-21485
- Isolated output system for a class D switching-mode amplifier [NASA-CASE-MFS-21616-1] c 33 N75-30429
- Compact-bi-phase pulse coded modulation decoder [NASA-CASE-KSC-10834-1] c 33 N76-14371
- Filtering device --- removing electromagnetic noise from voice communication signals [NASA-CASE-MFS-22729-1] c 32 N76-21366
- System for measuring Reynolds in a turbulently flowing fluid --- signal processing [NASA-CASE-ARC-10755-2] c 34 N76-27517
- Three phase full wave dc motor decoder [NASA-CASE-GSC-11824-1] c 33 N77-26386

- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
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Doppler-corrected differential detection system
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[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Multiple symbol differential detection
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[NASA-CASE-MFS-28421-1] c 18 N92-28750
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Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N92-33028
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057
- SIGNAL RECEPTION**
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
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[NASA-CASE-MSC-12205-1] c 07 N71-27056
Electricity measurement devices employing liquid crystalline materials
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- SIGNAL REFLECTION**
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- SIGNAL STABILIZATION**
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
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[NASA-CASE-MSC-12259-1] c 07 N70-12616
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[NASA-CASE-XMF-00701] c 09 N70-40272
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[NASA-CASE-XNP-05254] c 07 N71-20791
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
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[NASA-CASE-MSC-12259-2] c 07 N72-33146
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- Gated compressor, distortionless signal limiter
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- SIGNAL TRANSMISSION**
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[NASA-CASE-XGS-05918] c 07 N69-39974
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[NASA-CASE-XAC-00086] c 09 N70-33182
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
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[NASA-CASE-XGS-03632] c 09 N71-23311
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[NASA-CASE-KSC-10108] c 14 N73-25461
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Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
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[NASA-CASE-MSC-12494-1] c 32 N74-20810
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[NASA-CASE-MSC-14558-1] c 32 N75-21486
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[NASA-CASE-GSC-11743-1] c 32 N75-24981
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[NASA-CASE-NPO-13683-1] c 35 N77-14411
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
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[NASA-CASE-KSC-11023-1] c 32 N79-23310
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[NASA-CASE-NPO-14749-1] c 32 N81-14186
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[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
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[NASA-CASE-MSC-18808-1] c 32 N90-20280
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[NASA-CASE-GSC-12821-2] c 33 N91-31530
- SIGNATURE ANALYSIS**
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[NASA-CASE-NPO-13691-1] c 43 N79-17288
- SILANES**
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
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[NASA-CASE-XMF-06409] c 06 N71-23230
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[NASA-CASE-XMF-08674] c 06 N71-28807
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Process for producing tris (n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280

- Boron-containing organosilane polymers and ceramic materials thereof
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- SILICA GEL**
Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- SILICA GLASS**
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- SILICATES**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
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[NASA-CASE-GSC-12303-1] c 24 N79-31347
- SILICIDES**
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[NASA-CASE-XLE-10910] c 18 N71-29040
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[NASA-CASE-LEW-11179-1] c 27 N76-16229
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[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
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[NASA-CASE-NPO-18625-1-CU] c 76 N92-30102
- SILICON**
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
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[NASA-CASE-NPO-14406-1] c 37 N80-29703
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[NASA-CASE-NPO-14297-1] c 33 N81-19389
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[NASA-CASE-NPO-15539-1] c 37 N82-11469
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[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Process and apparatus for growing a crystal ribbon
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[NASA-CASE-NPO-16155-1] c 44 N85-30475
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
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[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
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[NASA-CASE-NPO-16308-1-CU] c 76 N91-15898
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[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N92-16121
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
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[NASA-CASE-LAR-14579-1] c 35 N92-29097
- Method of forming silicon structures with selectable optical characteristics
[NASA-CASE-NPO-18625-1-CU] c 76 N92-30102
- SILICON ALLOYS**
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- SILICON CARBIDES**
A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
- SILICON COMPOUNDS**
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Polymerizable disilanol having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Production of mullite fibers
[NASA-CASE-MFS-28431-1] c 24 N92-17870
- SILICON CONTROLLED RECTIFIERS**
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- SILICON DIOXIDE**
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
Toughened uni-piece fibrous insulation
[NASA-CASE-ARC-11888-1] c 24 N92-16026
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
- SILICON FILMS**
A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- SILICON JUNCTIONS**
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
- SILICON NITRIDES**
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- SILICON OXIDES**
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- SILICON POLYMERS**
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Boron-carbon-silicon polymers and ceramic and a process for the production thereof
[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160
- SILICON RADIATION DETECTORS**
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- SILICON TRANSISTORS**
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- SILICONE RESINS**
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- SILICONE RUBBER**
Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210
- SILICONES**
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SILICONIZING**
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
- SILOXANES**
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516

SILVER ALLOYS

Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

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Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735

SILVER COMPOUNDS

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MS-C-10960-1] c 03 N71-24718
Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244

SILVER ZINC BATTERIES

Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

SIMD (COMPUTERS)

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

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Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-C-20202-1] c 54 N84-16803
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MS-C-21384-1] c 34 N92-16243
Synchronous parallel system for emulation and discrete event simulation
[NASA-CASE-NPO-18414-1-CU] c 62 N92-24045

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Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MS-C-21384-1] c 34 N92-16243

SIMULTANEOUS EQUATIONS

Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

SINE SERIES

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

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Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

SINGLE CRYSTALS

Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Process for the controlled growth of single-crystal films of silicon carbide polypyrrole on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
Method of intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-1] c 24 N92-16025
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561

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Method and apparatus for increasing resistance of bipolar buried layer integrated circuit devices to single-event upsets
[NASA-CASE-NPO-17573-2-CU] c 33 N92-16196

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Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N92-16122

SIS (SUPERCONDUCTORS)

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

SIZE (DIMENSIONS)

Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618

SIZE DETERMINATION

Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

SIZE SEPARATION

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765

SIZING (SHAPING)

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650

SIZING SCREENS

Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483

SKEWNESS

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

SKID LANDINGS

Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

SKIN (ANATOMY)

Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

SKIN (STRUCTURAL MEMBER)

Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387

SKIN FRICTION

Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954

SKIN TEMPERATURE (BIOLOGY)

Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780

SKIN TEMPERATURE (NON-BIOLOGICAL)

Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

SKIRTS

Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708

SKY BRIGHTNESS

Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

SLEEP

EEG sleep analyzer and method of operation Patent
[NASA-CASE-MS-C-13282-1] c 05 N71-24729

SLEEVES

Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Tapered, tubular polyester fabric
[NASA-CASE-MS-C-21082-1] c 27 N87-29672

SLENDER BODIES

A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540

SLEWING

Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031

SLICING

Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
System for slicing silicon wafers
[NASA-CASE-NPO-14408-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

SLIDING

Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

SLIDING CONTACT

Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049

Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

SLIDING FRICTION
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

SLIP CASTING
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076

SLITS
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

SLOPES
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

SLOT ANTENNAS
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Spiral slotted phased antenna array
[NASA-CASE-MS-18532-1] c 32 N82-27558

SLOTS
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

SLUDGE
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

SLURRIES
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Method for producing oxygen from lunar materials
[NASA-CASE-MS-21759-1] c 25 N92-12079

SLURRY PROPELLANTS
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382

SMOKE
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

SOAPS
Guanidine based vehicle/binders for use with oxides, metals, and ceramics
[NASA-CASE-LEW-15314-1] c 27 N92-23461

SODIUM CHLORIDES
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

SODIUM VAPOR
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231

SOFT LANDING
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845

Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

SOFT LANDING SPACECRAFT
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159

SOFTWARE ENGINEERING
Encyclopedia of software components
[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543

SOFTWARE REUSE
Encyclopedia of software components
[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543

SOFTWARE TOOLS
Encyclopedia of software components
[NASA-CASE-NPO-18435-1-CU] c 61 N92-30543

SOIL MECHANICS
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

SOIL MOISTURE
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

SOIL SCIENCE
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

SOILS
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

SOL-GEL PROCESSES
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

SOLAR ACTIVITY
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

SOLAR ARRAYS
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Closed Loop solar array-thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-1] c 44 N92-23463
Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N92-24057

SOLAR BLANKETS
Self-deploying photovoltaic power system
[NASA-CASE-LEW-15308-1] c 44 N92-24057

SOLAR CELLS

Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571

- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
- Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Method of fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
- Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-1] c 44 N92-23463
- SOLAR COLLECTORS**
- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
- Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
- Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
- Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
- Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999
- SOLAR ELECTRIC PROPULSION**
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- SOLAR ENERGY**
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589
- Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143
- SOLAR ENERGY ABSORBERS**
- Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
- Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657
- Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- SOLAR ENERGY CONVERSION**
- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
- Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- SOLAR FLUX DENSITY**
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- SOLAR FURNACES**
- High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
- SOLAR GENERATORS**
- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- SOLAR GRAVITATION**
- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- SOLAR HEATING**
- Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
- Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686

SOLAR OBSERVATORIES

Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568

SOLAR PONDS (HEAT STORAGE)

Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792

SOLAR POSITION

Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

SOLAR POWERED AIRCRAFT

Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154

SOLAR RADIATION

Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

SOLAR RADIATION SHIELDING

High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036

SOLAR RADIO EMISSION

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

SOLAR REFLECTORS

Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433

SOLAR SAILS

Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

SOLAR SENSORS

Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526

Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

SOLAR SIMULATORS

High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

SOLAR-PUMPED LASERS

Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

SOLDERED JOINTS

Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214

SOLDERING

Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094

SOLDERS

Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

SOLENOID VALVES

Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SOLENOIDS

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357

SOLID CRYOGEN COOLING

Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

SOLID ELECTRODES

Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

SOLID ELECTROLYTES

Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753

SOLID LUBRICANTS

Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403

Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186

SOLID PHASES

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
Cooling apparatus and couplings therefor
[NASA-CASE-ARC-11921-1] c 34 N92-11286

SOLID PROPELLANT IGNITION

Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SOLID PROPELLANT ROCKET ENGINES

Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03988] c 14 N71-27186
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SOLID PROPELLANTS

Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710

SOLID ROCKET BINDERS

Solid propellant liner Patent
[NASA-CASE-NXP-09744] c 27 N71-16392
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SOLID ROCKET PROPELLANTS

Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
- Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
- High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
- Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
- Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SOLID STATE**
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
- Integrated, non-volatile, high-speed analog random access memory
[NASA-CASE-NPO-17998-1-CU] c 60 N92-12438
- SOLID STATE DEVICES**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
- Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
- Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
- Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
- Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
- Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
- Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
- A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
- Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
- Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
- RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
- Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
- Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
- Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
- Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
- Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
- Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MS-C-20181-1] c 33 N88-23941
- Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
- SOLID STATE LASERS**
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
- SOLID SURFACES**
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387
- SOLID WASTES**
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MS-C-14831-1] c 25 N78-10225
- SOLID-SOLID INTERFACES**
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- SOLIDIFICATION**
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
- Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- SOLIDIFIED GASES**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- SOLIDS FLOW**
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- SOLUBILITY**
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
- SOLUTIONS**
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MS-C-14081-1] c 35 N74-27860
- SOLUTIONS**
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
- Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
- SOLVENT EXTRACTION**
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- Infusion extractor
[NASA-CASE-MS-C-20761-1] c 37 N87-15465
- SOLVENTS**
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
- Process for producing tris *s*-(*n*-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
- Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
- N*-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
- Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
- Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307
- Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792
- SONAR**
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- SONIC BOOMS**
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
- Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
- SORBATES**
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- SORBENTS**
Regenerative Cu/La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N92-10073
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
- SORET COEFFICIENT**
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- SORPTION**
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
- Multicomponent gas sorption Joule-Thomson refrigeration
[NASA-CASE-NPO-17569-1-CU] c 31 N92-15203
- Three-stage sorption type cryogenic refrigeration system and method employing heat regeneration
[NASA-CASE-NPO-18366-1-CU] c 31 N92-17674
- SOUND FIELDS**
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
- SOUND GENERATORS**
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- SOUND LOCALIZATION**
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
- Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522
- SOUND PRESSURE**
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
- Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
- Acoustic device and method for measuring gas densities
[NASA-CASE-NPO-18155-1-CU] c 71 N92-10609
- Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-33021
- SOUND PROPAGATION**
System for plotting subsoil structure and method thereof
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913
- SOUND RANGING**
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- SOUND TRANSDUCERS**
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
- Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
- Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
- Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- Calibration apparatus for recess mounted pressure transducers
[NASA-CASE-LAR-14724-1] c 35 N92-30030
- SOUND TRANSMISSION**
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913
- SOUND WAVES**
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
- Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
- Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
- Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
- Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
- Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
- Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
- Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N92-33611
- SOUNDING ROCKETS**
- Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
- Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
- SPACE CAPSULES**
- Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 71 N70-36410
- Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
- Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
- SPACE CHARGE**
- Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
- SPACE COMMUNICATION**
- Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
- Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
- Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
- Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
- SPACE DEBRIS**
- Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
- Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007
- Space station trash removal system
[NASA-CASE-MSC-21723-1] c 18 N92-30315
- SPACE ENVIRONMENT SIMULATION**
- Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
- Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
- Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
- SPACE ERECTABLE STRUCTURES**
- Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
- Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
- Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
- Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
- Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
- Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
- Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
- Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
- Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
- Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
- Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
- Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
- Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
- Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
- Robot-friendly connector --- space truss structures
[NASA-CASE-MSC-21864-1] c 37 N92-23544
- SPACE EXPLORATION**
- Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
- SPACE FLIGHT**
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
- Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137
- SPACE FLIGHT FEEDING**
- Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
- Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
- SPACE INDUSTRIALIZATION**
- Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- SPACE LABORATORIES**
- Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N71-27201
- SPACE MAINTENANCE**
- Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- SPACE MANUFACTURING**
- Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
- Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
- Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- SPACE MISSIONS**
- Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
- Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- SPACE NAVIGATION**
- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
- Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
- SPACE ORIENTATION**
- Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
- SPACE PLATFORMS**
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958
- SPACE PROBES**
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- SPACE PROCESSING**
- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- High gradient directional solidification furnace
[NASA-CASE-MSC-25963-1] c 35 N86-20750
- Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
- Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
- Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
- Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201
- SPACE RENDEZVOUS**
- Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- SPACE SHUTTLE BOOSTERS**
- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- SPACE SHUTTLE MAIN ENGINE**
- Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035
- SPACE SHUTTLE ORBITERS**
- Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
- High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035
- Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007
- SPACE SHUTTLE PAYLOADS**
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729

Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660

SPACE SHUTTLES

Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884

Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854

Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041

Fused silicide coatings containing discrete particles for protecting niobium alloys — used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229

Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320

System for sterilizing objects — cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

Terminal guidance sensor system — space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

Adjustable high emittance gap filler — reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339

Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

Slide release mechanism — for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181

Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126

Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142

SPACE SIMULATORS

Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674

Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

SPACE STATION STRUCTURES

Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398

Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374

Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221

SPACE STATIONS

Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676

Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345

Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214

Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729

Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561

Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180

Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798

Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126

Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377

Space station trash removal system
[NASA-CASE-MSC-21723-1] c 18 N92-30315

Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N92-33010

SPACE STORAGE

Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPACE SUITS

Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819

Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194

Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195

Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599

Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773

Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439

G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268

Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256

Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285

Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097

Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125

Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679

Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761

Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

Absorbent product to absorb fluids — for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362

Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618

Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619

Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620

Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344

Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889

Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

Glove attachment
[NASA-CASE-MSC-21632-1] c 54 N92-34210

SPACE TOOLS

Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-29150

SPACE TRANSPORTATION SYSTEM

Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

SPACE VEHICLE CHECKOUT PROGRAM

Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604

Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

SPACEBORNE EXPERIMENTS

Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

SPACEBORNE TELESCOPES

Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

Cooled echelle grating spectrometer — for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124

Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

SPACECRAFT

Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058

Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187

High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850

Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

SPACECRAFT ANTENNAS

Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521

Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136

Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169

Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176

Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

Antenna deployment mechanism for use with a spacecraft — extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SPACECRAFT CABIN ATMOSPHERES

Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792

Nonflammable coating compositions — for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283

Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722

SPACECRAFT CABINS

Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

SPACECRAFT COMMUNICATION

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591

SPACECRAFT COMPONENTS

Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377

SPACECRAFT CONFIGURATIONS

Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854

Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

SPACECRAFT CONSTRUCTION MATERIALS

Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

SPACECRAFT CONTROL

Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

SPACECRAFT DESIGN

Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434

Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

SPACECRAFT DOCKING

Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N92-21727
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N92-28750

SPACECRAFT ELECTRONIC EQUIPMENT

Dynamic Doppler sensor Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Electrical self-aligning connector --- orbital service vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

SPACECRAFT ENVIRONMENTS

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649

Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

SPACECRAFT EQUIPMENT

Four-terminal electrical testing device --- initiator bridewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498

SPACECRAFT GUIDANCE

Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

SPACECRAFT INSTRUMENTS

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

SPACECRAFT LANDING

Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

SPACECRAFT LAUNCHING

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958

SPACECRAFT MODELS

Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086

SPACECRAFT MODULES

Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Robot serviced space facility
[NASA-CASE-GSC-13408-1] c 18 N92-24244

SPACECRAFT MOTION

Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372

SPACECRAFT POSITION INDICATORS

Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490

SPACECRAFT POWER SUPPLIES

Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612
Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

SPACECRAFT PROPULSION

Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035

SPACECRAFT RADIATORS

Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048

Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424

SPACECRAFT RECOVERY

Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985

SPACECRAFT REENTRY

Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

SPACECRAFT SHIELDING

Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186
Ablative shielding for hypervelocity projectiles
[NASA-CASE-MSC-21884-1] c 27 N92-30539

SPACECRAFT STABILITY

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

SPACECRAFT STRUCTURES

Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
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[NASA-CASE-XLA-07728] c 33 N71-22890
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Shuttle orbiter with telescoping main propulsion unit and payload
[NASA-CASE-LAR-13586-1] c 16 N92-10035
Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007
- SPACECRAFT TELEVISION**
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
- SPACECRAFT TEMPERATURE**
Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
- SPACECRAFT TRACKING**
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[NASA-CASE-NPO-10066] c 09 N71-18598
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
- SPACECREWS**
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[NASA-CASE-XMS-06162] c 31 N71-28851
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- SPACELAB PAYLOADS**
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- SPALLATION**
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- SPARK CHAMBERS**
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
- SPARK GAPS**
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N89-39897
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[NASA-CASE-XLA-01987] c 23 N71-23976
- SPARK IGNITION**
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- SPARK PLUGS**
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
- SPARKS**
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[NASA-CASE-LAR-13273-2] c 33 N90-20320
- SPATIAL DISTRIBUTION**
Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
- SPATIAL FILTERING**
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
- SPATIAL RESOLUTION**
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- SPECIMENS**
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
- Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
- SPECTRAL BANDS**
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
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[NASA-CASE-NPO-17794-1-CU] c 74 N92-30104
- SPECTRAL CORRELATION**
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
- SPECTRAL REFLECTANCE**
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
- SPECTRAL SENSITIVITY**
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006
- SPECTRAL SIGNATURES**
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- SPECTROMETERS**
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
- SPECTROPHOTOMETERS**
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
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[NASA-CASE-NPO-13604-1] c 35 N76-31490
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
- SPECTRORADIOMETERS**
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
- SPECTROSCOPIC ANALYSIS**
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
- SPECTROSCOPIC TELESCOPES**
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
- SPECTROSCOPY**
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N92-29117
- SPECTRUM ANALYSIS**
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N92-31788
- SPECULAR REFLECTION**
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
- SPEECH BASEBAND COMPRESSION**
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
- SPEECH RECOGNITION**
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[NASA-CASE-GSC-11898-1] c 32 N77-30309
- SPEED CONTROL**
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- SPEED INDICATORS**
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- SPEED REGULATORS**
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
- SPENT FUELS**
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
- SPHERES**
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-MFO-15070-1] c 31 N83-35176
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Fingered bola body, bola with same, and methods of use
[NASA-CASE-MSC-21967-1] c 37 N92-30026
- SPHERICAL SHELLS**
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
- SPHERICAL TANKS**
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
- SPHERICAL WAVES**
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

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- Three-dimensional cultured glioma cell lines
[NASA-CASE-MSC-21843-1-NP] c 51 N92-24052
- SPHYMOGRAPHY**
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
- SPIKE NOZZLES**
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
- SPIKE POTENTIALS**
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- SPILLING**
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
- SPIN DYNAMICS**
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
- SPIN REDUCTION**
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
- SPIN STABILIZATION**
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Passive dual spin misalignment compensators --- gyro-stabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- SPINDLES**
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[NASA-CASE-MSC-16270-1] c 37 N78-27423
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[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031
- SPIKE**
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- SPIRAL ANTENNAS**
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
- SPIRAL WRAPPING**
Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
- SPIRALS (CONCENTRATORS)**
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
- SPIROMETERS**
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
- SPlicing**
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

- Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162
- SPINITS**
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- SPOILERS**
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
- SPOKES**
Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
- SPORES**
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
- SPOT WELDS**
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- SPRAY CHARACTERISTICS**
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- SPRAY NOZZLES**
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
- SPRAYED COATINGS**
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[NASA-CASE-XLE-01604-2] c 15 N71-15610
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- SPRAYERS**
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
Sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N92-16123
- SPRAYING**
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SPREAD SPECTRUM TRANSMISSION

- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- SPREADING**
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- SPRINGS (ELASTIC)**
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
- SPUTTERING**
A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- SQUARE WAVES**
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
- SQUARES (MATHEMATICS)**
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- SQUEEZE FILMS**
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- SQUIBS**
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- SQUID (DETECTORS)**
Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602
- STABILITY**
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790

- Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
- Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
- Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
- Adjustable steam producing flexible orifice independent of fluid pressure
[NASA-CASE-NPO-17625-1-CU] c 34 N92-21724
- STABILITY AUGMENTATION**
- Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- STABILITY TESTS**
- Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
- STABILIZATION**
- Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-12326
- Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499
- STABILIZED PLATFORMS**
- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
- Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- STABILIZERS**
- Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
- STABILIZERS (AGENTS)**
- Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
- STABILIZERS (FLUID DYNAMICS)**
- Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
- Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
- Apparatus for automatically stabilizing the attitude of a nonrigid vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- STABLE OSCILLATIONS**
- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
- STACKS**
- Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
- STAGE SEPARATION**
- Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
- Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
- Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
- Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
- Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
- Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
- Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- STAGNATION PRESSURE**
- Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
- Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
- STAGNATION TEMPERATURE**
- Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- STAINING**
- Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
- STAINLESS STEELS**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
- Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
- Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612
- STAMPING**
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- STANDARD DEVIATION**
- An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730
- STANDARDS**
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253
- STANDING WAVES**
- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- STAR TRACKERS**
- Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
- Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
- Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
- Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
- Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
- Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
- Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
- Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
- Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- STARK EFFECT**
- Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
- Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- STARTERS**
- Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
- Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
- Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
- STARTING**
- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
- STATIC DEFORMATION**
- Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
- STATIC DISCHARGERS**
- Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- STATIC FRICTION**
- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
- STATIC INVERTERS**
- Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
- Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
- STATIC LOADS**
- Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
- Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
- Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
- STATIC PRESSURE**
- Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
- Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
- Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586
- STATIONKEEPING**
- Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969
- STATISTICAL ANALYSIS**
- Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
- STATISTICAL CORRELATION**
- Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
- STATOR BLADES**
- Stator rotor tools
[NASA-CASE-XSC-16000-1] c 37 N78-24544

STATORS

- Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

STEADY STATE

- Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

STEAM

- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496

STEAM TURBINES

- Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104

STEELS

- Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
Magnetic remanence method and apparatus to test materials for embrittlement
[NASA-CASE-LAR-13817-4] c 39 N92-29101
Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

STEERABLE ANTENNAS

- Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

STEERING

- Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N92-28750

STELLAR LUMINOSITY

- Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STELLAR SPECTRA

- Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STENCIL PROCESSES

- Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073

STEPPING MOTORS

- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

STEREOPHOTOGRAPHY

- Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

STEREOSCOPIC VISION

- Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

- Near real-time stereo vision system
[NASA-CASE-NPO-18593-1-CU] c 74 N92-17864

STEREOSCOPY

- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920

STERILIZATION

- Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

STERILIZATION EFFECTS

- Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200

STIFFENING

- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

STIFFNESS

- Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

STILBENE

- Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

STIMULATED EMISSION

- Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

STIRLING CYCLE

- Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

STIRLING ENGINES

- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143

STIRRING

- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

STOICHIOMETRY

- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Polyimides with improved compression moldability
[NASA-CASE-LAR-14457-1-CU] c 27 N92-11198
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N92-22035
Polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N92-33014

STOPPING

- Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019

STORAGE

- Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

STORAGE BATTERIES

- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
Secondary Li battery incorporating 12-Crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N92-28753

STORAGE STABILITY

- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

STORAGE TANKS

- Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

STOWAGE (ONBOARD EQUIPMENT)

- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

STRAIN DISTRIBUTION

- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541

STRAIN GAGE ACCELEROMETERS

- Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

STRAIN GAGE BALANCES

- Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185

STRAIN GAGES

- Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438

- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
- Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
- Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
- Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
- Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108
- Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910
- STRAIN MEASUREMENT**
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
- Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
- STRAIN RATE**
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
- Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
- STRAKES**
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
- Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
- Helicopter low-speed yaw control
[NASA-CASE-LAR-14219-1] c 08 N92-30025
- STRANDS**
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587
- STRAPDOWN INERTIAL GUIDANCE**
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
- STRAPS**
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
- Load limiting energy absorbing lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N92-16007
- STRATIGRAPHY**
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- STREAMS**
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- STRESS ANALYSIS**
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
- Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
- Method and apparatus for determination of material residual stress
[NASA-CASE-GSC-13451-1] c 39 N92-23549
- STRESS CONCENTRATION**
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
- STRESS CORROSION**
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271-1] c 17 N71-16393
- Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
- STRESS DISTRIBUTION**
Combined load test apparatus for flat panels
[NASA-CASE-LAR-14698-1] c 39 N92-30028
- A shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1] c 39 N92-30317
- STRESS MEASUREMENT**
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
- Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
- Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
- Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
- Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
- STRESS RELAXATION**
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
- STRESS RELIEVING**
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
- STRESS WAVES**
Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154
- STRESSES**
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
- Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- STRETCHERS**
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
- Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- STRETCHING**
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
- STRINGERS**
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- STRINGS**
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- STRIP TRANSMISSION LINES**
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- STROBOSCOPES**
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
- STRUCTURAL ANALYSIS**
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
- STRUCTURAL DESIGN**
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
- High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
- Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
- Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
- Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
- Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
- Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
- Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
- Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742
- Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
- Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609
- Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
- High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
- Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438
- Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656
- Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197
- STRUCTURAL DESIGN CRITERIA**
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- STRUCTURAL ENGINEERING**
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- STRUCTURAL FAILURE**
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
- STRUCTURAL MEMBERS**
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
- Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
- Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
- Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035
- Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
- Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
- Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384
- STRUCTURAL STABILITY**
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
- Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
- STRUCTURAL VIBRATION**
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
- Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
- Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428

- Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Multi-degree of freedom, active vibration control method, and system
[NASA-CASE-LAR-14508-1-CU] c 39 N92-10202

STRUCTURES

- Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681

STRUTS

- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11032-1] c 71 N82-16800
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

STUDS (STRUCTURAL MEMBERS)

- Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

STYRENES

- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

SUBASSEMBLIES

- Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

SUBCRITICAL FLOW

- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

SUBLIMATION

- Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258

SUBMARINES

- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

SUBMERGING

- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

SUBMILLIMETER WAVES

- Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197

SUBMINIATURIZATION

- Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530

SUBREFLECTORS

- Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Double-loop frequency-selected surfaces for multifrequency division multiplexing in a dual-reflector antenna
[NASA-CASE-NPO-18701-1-CU] c 32 N92-30391

SUBSONIC SPEED

- Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

SUBSONIC WIND TUNNELS

- Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246

SUBSTRATES

- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N91-25202
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
Whiskerless Schottky diode
[NASA-CASE-GSC-13063-2-CU] c 33 N92-16197
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-2-CU] c 24 N92-18561
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
Method of forming silicon structures with selectable optical characteristics
[NASA-CASE-NPO-18625-1-CU] c 76 N92-30102
A method of making a single layer multi-color luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389

SUBSTRUCTURES

- Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606

- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

SUCTION

- Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427

SUGARS

- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
Apparatus and method for cellulose processing using microwave pretreatment
[NASA-CASE-MSC-21936-1] c 25 N92-19486

SULFATES

- Intumescent paints Patent
[NASA-CASE-LAR-10099-1] c 18 N71-15469

SULFIDES

- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

SULFONES

- Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
Ethynyl terminated imidethioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307
Helmet of a laminate construction of polycarbonate and polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091

SULFONIC ACID

- Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

SULFUR COMPOUNDS

- Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

SULFUR DIOXIDES

- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

SULFURIC ACID

- Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
Method for producing oxygen from lunar materials
[NASA-CASE-MSC-21759-1] c 25 N92-12079

SUN RULES

- Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693

SUN

- Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526

SUNGLASSES

- Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

SUNLIGHT

- Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589

SUPERCHARGERS

- Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

SUPERCONDUCTING FILMS

- Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041
An improved SNS superconducting junction with weak link barrier and method of producing
[NASA-CASE-NPO-18552-1-CU] c 33 N92-24246

SUPERCONDUCTING MAGNETS

- Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099

SUPERCONDUCTIVITY

- Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N92-10681
Electromagnetic Meissner effect launcher
[NASA-CASE-MFS-28323-1] c 14 N92-15081
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N92-28571
Superconducting bearings with levitation control configurations
[NASA-CASE-GSC-13346-1] c 37 N92-29099

SUPERCONDUCTORS

- Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529

SUPERCOOLING

- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

SUPERCRITICAL FLUIDS

- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

SUPERCRITICAL PRESSURES

- Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

SUPERFLUIDITY

- Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

SUPERHEATING

- Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

SUPERHIGH FREQUENCIES

- Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

SUPERLATTICES

- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

SUPERPLASTICITY

- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

SUPERSATURATION

- Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

SUPERSONIC AIRCRAFT

- Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156

SUPERSONIC COMBUSTION

- Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC DRAG

- Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

SUPERSONIC FLOW

- Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

SUPERSONIC INLETS

- Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC JET FLOW

- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N92-21586

SUPERSONIC NOZZLES

- Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

SUPERSONIC SPEED

- Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429

SUPERSONIC TRANSPORTS

- Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086

SUPERSONIC WIND TUNNELS

- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

SUPPORTING

- Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N92-33013

SUPPORT INTERFERENCE

- Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404

SUPPORT SYSTEMS

- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

SUPPORTS

- A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
- Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
- Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
- Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
- Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
- Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
- Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
- Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
- End effector with astronaut foot restraint
[NASA-CASE-MSC-21721-1] c 54 N92-16559
- High reliability robot friendly ORU interface
[NASA-CASE-GSC-13360-1] c 37 N92-23377
- Shaft mount for data coupler system
[NASA-CASE-LAR-13805-1] c 37 N92-30097
- SUPPRESSORS**
- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- SURFACE ACOUSTIC WAVE DEVICES**
- Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
- SURFACE CRACKS**
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- SURFACE DEFECTS**
- Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
- Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
- SURFACE DIFFUSION**
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
- SURFACE DISTORTION**
- Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
- SURFACE EMITTING LASERS**
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
- SURFACE FINISHING**
- Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
- Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N92-33009
- SURFACE GEOMETRY**
- Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- SURFACE IONIZATION**
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- SURFACE LAYERS**
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- Pretreatment for lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
- SURFACE PROPERTIES**
- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
- Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
- Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
- Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
- Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186
- Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397
- SURFACE REACTIONS**
- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
- Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
- Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
- SURFACE ROUGHNESS**
- Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
- Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
- Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- SURFACE ROUGHNESS EFFECTS**
- Meteorological balloon Patent
[NASA-CASE-XMF-04183] c 02 N71-23007
- SURFACE TEMPERATURE**
- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- SURFACE TREATMENT**
- Polymer-coated surfaces to control surface zeta potential
[NASA-CASE-MFS-26050-1] c 27 N92-25397
- Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N92-25399
- SURFACE VEHICLES**
- Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
- Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
- Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
- Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
- Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
- SURFACE WAVES**
- Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
- Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- SURFACES**
- Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
- SURFACTANTS**
- Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
- SURGERY**
- Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
- Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840
- SURGES**
- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
- SURGICAL INSTRUMENTS**
- Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
- Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
- Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885
- Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032
- SURVIVAL EQUIPMENT**
- Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
- Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493

Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

SUSPENDING (HANGING)

Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310

Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028

Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146

Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242

Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116

Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176

SUSPENSION SYSTEMS (VEHICLES)

Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

SWEAT

Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

SWEAT COOLING

Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226

Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075

Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

SWEEP CIRCUITS

Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

SWEEP EFFECT

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

SWEEP FREQUENCY

Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

Method and apparatus for frequency spectrum analysis
[NASA-CASE-NPO-17759-1-CU] c 32 N92-29124

SWELLING

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

SWEEP FORWARD WINGS

High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914

SWEEP WINGS

Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

Natural flow wing
[NASA-CASE-LAR-14281-1] c 02 N92-28729

SWIRLING

Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569

Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665

Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236

SWITCHES

Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713

Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434

RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202

High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419

Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032

Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190

Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785

Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010

Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537

Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907

Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N92-28571

SWITCHING

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

SWITCHING CIRCUITS

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500

Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888

A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157

High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798

SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514

Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694

A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751

Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033

Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270

Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316

Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799

Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859

Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925

Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212

Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157

Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031

Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199

Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243

Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162

Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197

Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201

Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235

Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135

Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143

High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431

Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254

System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383

SWITCHING THEORY

Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

SWIVELS

- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

SYMBOLS

- Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439

SYNCHRONISM

- Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885

SYNCHRONIZED OSCILLATORS

- Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247

SYNCHRONIZERS

- Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

SYNCHRONOUS MOTORS

- Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524

SYNCHRONOUS SATELLITES

- Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Serrordyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

SYNTHESIS

- Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236

- Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980

SYNTHESIS (CHEMISTRY)

- Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Synthesis of 2,4,8,10-tetroxaspiro[5,5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
Fire and heat resistant laminating resins based on maleimide and citraconimide substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404

- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
Novel polyimide compositions based on 4,4'-isophthaloyldiphthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamino benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N92-28751
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N92-29141
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N92-33008
Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N92-33009
Graphite fluoride from iodine intercalated graphitized carbon
[NASA-CASE-LEW-15360-1] c 25 N92-34206

SYNTHESIZERS

- Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

SYNTHETIC APERTURE RADAR

- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975

Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

SYNTHETIC FIBERS

Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835

Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MS-C-12109] c 18 N71-26285

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747

Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391

Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MS-C-14331-3] c 27 N78-32262

Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

SYNTHETIC FUELS

Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261

Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475

SYNTHETIC RESINS

Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895

Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272

Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545

N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

SYNTHETIC RUBBERS

Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

SYRINGES

Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SYSTEM EFFECTIVENESS

System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

Dynamic pattern matcher using incomplete data
[NASA-CASE-MS-C-21415-1-SB] c 61 N92-17860

SYSTEM FAILURES

Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698

Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MS-C-12531-1] c 35 N75-30504

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

SYSTEMS ANALYSIS

Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166

SYSTEMS ENGINEERING

Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929

Gravity stabilized flying vehicle Patent
[NASA-CASE-MS-C-12111-1] c 02 N71-11039

Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050

Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190

Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285

Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894

Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439

Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440

High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544

Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395

Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834

Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045

Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060

Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721

Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723

Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968

Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

Filter valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024

Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025

Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026

Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042

Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336

Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401

Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597

Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681

Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750

Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840

Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-NPO-09771] c 09 N71-24841

Broadband modified turnstile antenna Patent
[NASA-CASE-MS-C-12209] c 09 N71-24842

Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890

Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891

Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975

Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787

Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364

Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031

Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032

Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624

Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414

Flight control system
[NASA-CASE-MS-C-13397-1] c 21 N72-25595

Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495

Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386

Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397

System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132

Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866

Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124

Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526

Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481

Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447

Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961

Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

SYSTOLIC ARRAYS

Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

T

TABS (CONTROL SURFACES)

Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656

TACHOMETERS

Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896

- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
- Rateometer
[NASA-CASE-MFS-20418] c 14 N73-24473
- Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- TACTILE SENSORS (ROBOTICS)**
- Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- TAIL ASSEMBLIES**
- Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- TAKEOFF**
- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
- TANGENTS**
- Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
- TANK GEOMETRY**
- Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
- TANKERS**
- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- TANKS (COMBAT VEHICLES)**
- Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1-CU] c 37 N87-17034
- TANKS (CONTAINERS)**
- Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
- Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
- Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
- TANTALUM**
- Thermionic tantalum emitter doped with oxygen Patent
Application
[NASA-CASE-NPO-11138] c 03 N70-34646
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- TANTALUM ALLOYS**
- Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
- Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
- TANTALUM CARBIDES**
- Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- TANTALUM OXIDES**
- Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
- TAPE RECORDERS**
- Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
- Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
- Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
- Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
- Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
- Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
- Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
- Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
- A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
- Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
- Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
- TAPERED COLUMNS**
- Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
- Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
- TAPERING**
- Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
- TAPES**
- High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
- Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865
- TARGET ACQUISITION**
- Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
- Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
- TARGET RECOGNITION**
- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
- TARGET SIMULATORS**
- Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
- Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- TARGETS**
- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
- Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
- Apparatus for precision focussing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N92-16811
- TECHNOLOGY UTILIZATION**
- Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- TECTONICS**
- Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
- TEETH**
- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- TEFLON (TRADEMARK)**
- Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- TELECOMMUNICATION**
- Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
- Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
- Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
- Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
- Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
- Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
- Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
- TELEMETRY**
- Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
- Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
- Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
- Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
- Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
- Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
- Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
- Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
- VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
- Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
- TELEOPERATORS**
- Cooperative multi-axis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
- Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
- Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
- A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
- Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
- Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036
- TELEPHONES**
- Telephone multi-line signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- TELEPHONY**
- Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

TELEROBOTICS

Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126

TELESCOPES

Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Servo-controlled intravitral microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-18869-1CU] c 74 N86-33138
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N92-29122

TELETYPEWRITER SYSTEMS

Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

TELEVISION CAMERAS

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126

TELEVISION EQUIPMENT

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

TELEVISION RECEIVERS

Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

TELEVISION RECEPTION

Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

TELEVISION SYSTEMS

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728

Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840
Composite video and graphics display for multiple camera viewing system in robotics and teleoperation
[NASA-CASE-NPO-17836-1-CU] c 32 N92-10126
Real-time edge-enhanced optical correlator
[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022

TELEVISION TRANSMISSION

Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

TELLURIUM

Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

TEMPERATURE

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

TEMPERATURE COMPENSATION

Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

TEMPERATURE CONTROL

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489

Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
Mechanized fluid connector and assembly tool system with ball detents
[NASA-CASE-MSC-21434-1] c 37 N92-10197
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954

TEMPERATURE DISTRIBUTION

Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

TEMPERATURE EFFECTS

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304

- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- Flexible diaphragm-extreme temperature usage
[NASA-CASE-MS-20797-2] c 35 N91-21494
- High temperature, flexible, fiber-preform seal
[NASA-CASE-LEW-15085-1] c 37 N92-22043

TEMPERATURE GRADIENTS

- Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
- Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

TEMPERATURE MEASUREMENT

- Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
- Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
- Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
- Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
- Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
- Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
- Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
- Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
- Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
- Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
- Tank gauging apparatus and method
[NASA-CASE-MS-21059-3] c 35 N91-21495
- Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
- Method and apparatus for thermographically and quantitatively analyzing a structure for disbands and/or inclusions
[NASA-CASE-LAR-14559-1] c 38 N92-29829
- Sub-Kelvin resistance thermometer
[NASA-CASE-GSC-13406-1] c 35 N92-33614

TEMPERATURE MEASURING INSTRUMENTS

- Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
- Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
- Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
- Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
- High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROBES

- Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROFILES

- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N92-29148

TEMPERATURE SENSORS

- Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
- Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
- Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
- Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
- Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-18627-1] c 74 N82-30071
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
- Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954

TEMPERING

- Gradient tempering process
[NASA-CASE-MFS-28496-1] c 26 N92-34239

TEMPLATES

- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- Method of insulating predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

TENSILE PROPERTIES

- Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
- Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N92-31792

TENSILE STRENGTH

- Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
- Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490

- Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
- Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
- Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

TENSILE STRESS

- Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
[NASA-CASE-LAR-14402-1-CU] c 74 N92-33017

TENSILE TESTS

- Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
- Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
- Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
- Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
- Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
- Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
- Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
- Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175

TENSION

- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- Apparatus for elevated temperature compression or tension testing of specimens
[NASA-CASE-LAR-14775-1] c 39 N92-30099

TENSORS

- Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

TERMINAL GUIDANCE

- Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
- Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

TERNARY SYSTEMS

- Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868

TERRAIN

- Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

TERRAIN ANALYSIS
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

TEST CHAMBERS
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N92-16241

TEST EQUIPMENT
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936
Method and apparatus for using magneto-acoustic remanence to determine embrittlement
[NASA-CASE-LAR-13817-5] c 39 N92-28757
Magneto acoustic emission method for testing materials for embrittlement
[NASA-CASE-LAR-13817-2] c 39 N92-29155

TEST FACILITIES
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

TEST STANDS
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884

TEST VEHICLES
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

TETHERED SATELLITES
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

TETHERING
Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Fingered bola body, bola with same, and methods of use
[NASA-CASE-MSC-21967-1] c 37 N92-30026

TETHERLINES
Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

TETRAETHYL ORTHOSILICATE
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

TETRAPHENYLS
Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

TEXTILES
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

TEXTS
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

TEXTURES
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

THERAPY
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

THERMAL ABSORPTION
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525

THERMAL ANALYSIS
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710

THERMAL COMFORT
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002

THERMAL CONDUCTIVITY
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120
Heat transfer device
[NASA-CASE-LEW-14162-3] c 24 N92-34208

THERMAL CONDUCTORS
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657

THERMAL CONTROL COATINGS
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N91-25202
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N92-21725

THERMAL DEGRADATION
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

THERMAL DIFFUSION

Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968
A method of making a single layer multi-color
luminescent display
[NASA-CASE-LAR-14811-1] c 33 N92-30389

THERMAL DIFFUSIVITY

Double-beam optical method and apparatus for
measuring thermal diffusivity and other molecular dynamic
processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

THERMAL EMISSION

Electromagnetic radiation energy arrangement ---
coatings for solar energy absorption and infrared
reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296

THERMAL ENERGY

Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Device for directionally controlling electromagnetic
radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Panel for selectively absorbing solar thermal energy and
the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
Thermal energy storage system --- operating on
superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Apparatus for improving the fuel efficiency of a gas
turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Method for improving the fuel efficiency of a gas turbine
engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Thermal power transfer system using applied potential
difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N92-16457
Selective emitters
[NASA-CASE-LEW-14731-1] c 44 N92-22037
Pulse thermal energy transport/storage system
[NASA-CASE-LEW-15235-1] c 34 N92-29125
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N92-29143

THERMAL EXPANSION

Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Glass-to-metal seals comprising relatively high
expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
High effectiveness contour matching contact heat
exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Seamless metal-clad fiber-reinforced organic matrix
composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
A process for preparing an assembly of an article and
a polyimide which resists dimensional change,
delamination, and debonding when exposed to changes
in temperature
[NASA-CASE-LAR-14538-1] c 27 N92-11201
A process for preparing an assembly of an article and
a soluble polyimide which resists dimensional change,
delamination, and debonding when exposed to changes
in temperature
[NASA-CASE-LAR-14763-1] c 27 N92-12121
Hybridization of detector array and integrated circuit for
readout
[NASA-CASE-NPO-18062-1-CU] c 33 N92-30542
Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N92-33020

THERMAL FATIGUE

Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

THERMAL INSULATION

Piping arrangement through a double chamber
structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
Unfired-ceramic flame-resistant insulation and method
of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Techniques for insulating cryogenic fuel containers
Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Lightweight refractory insulation and method of
preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
Panelized high performance multilayer insulation
Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Intumescent composition, foamed product prepared
therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Thermal control system for a spacecraft modular
housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Intumescent composition, foamed product prepared
therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
High current electrical lead --- for thermionic
converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
Structural heat pipe --- for spacecraft wall thermal
insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Strain arrestor plate for fused silica tile --- bonding of
thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Auger attachment method for insulation --- of
spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437
Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
Thermal insulation attaching means --- adhesive bonding
of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Fibrous refractory composite insulation --- shielding
reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
Process for the preparation of
polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carbonylphosphazenes and their polymers ---
thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
A method and technique for installing light-weight fragile,
high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
Method and technique for installing light-weight, fragile,
high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Ceramic-ceramic shell tile thermal protection system and
method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566

Helmet of a laminate construction of polycarbonate and
polysulfone polymeric material
[NASA-CASE-MSC-21503-1] c 27 N92-10091

THERMAL MAPPING

Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

THERMAL NOISE

Vacuum-isolation vessel and method for measurement
of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-33021

THERMAL PLASMAS

Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

THERMAL PROTECTION

Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Foamed in place ceramic refractory insulating material
Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Ceramic insulation for radiant heating environments and
method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Temperature reducing coating for metals subject to
flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
Flexible fire retardant polyisocyanate modified neoprene
foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Corrosion resistant thermal barrier coating --- protecting
gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Attachment system for silica tiles --- thermal protection
for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
High temperature silicon carbide impregnated insulating
fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Silicon-slurry/aluminide coating --- protecting gas turbine
engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Thermal barrier coating system having improved
adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Covering solid, film cooled surfaces with a duplex thermal
barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Propulsion apparatus and method using boil-off gas from
a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Process for preparing essentially colorless polyimide film
containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Process for preparing highly optically
transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Thermal stress minimized, two component, turbine
shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Thermal switch disc for short circuit protection of
batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

THERMAL RADIATION

Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809

- Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71-NPO-15494-2] c 35 N85-34373

THERMAL REACTORS

- Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

THERMAL RESISTANCE

- Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
- Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
- Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-diaminobenzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
- THERMAL SHOCK**
- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
- Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- THERMAL SIMULATION**
- Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
- THERMAL STABILITY**
- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871

- Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676
- Tough, high performance, addition-type thermoplastic polymers
[NASA-CASE-LAR-14346-1] c 27 N92-22044
- Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-2] c 27 N92-24053
- Ultra-high temperature stability Joule-Thomson cooler with capability to accommodate pressure variations
[NASA-CASE-NPO-18184-1-CU] c 35 N92-29156
- Polybenzimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14643-1] c 27 N92-29953
- THERMAL STRESSES**
- Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
- Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
- Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
- Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
- Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
- Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
- Method for advanced material characterization by laser induced eddy current imaging
[NASA-CASE-GSC-13386-1] c 38 N92-29154
- THERMIONIC CATHODES**
- Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
- THERMIONIC CONVERTERS**
- Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
- Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
- Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
- High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
- High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- THERMIONIC DIODES**
- Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055

- Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
- Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
- THERMIONIC EMITTERS**
- Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
- THERMIONIC POWER GENERATION**
- Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- THERMISTORS**
- Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
- Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
- THERMOCHEMISTRY**
- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- THERMOCHROMATIC MATERIALS**
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
- THERMOCOUPLE PYROMETERS**
- Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- THERMOCOUPLES**
- Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
- Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
- Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
- Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
- Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
- Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
- Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
- Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
- Method of producing a plug-type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N92-22038
- THERMODYNAMIC CYCLES**
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- THERMODYNAMIC EFFICIENCY**
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

THERMODYNAMIC PROPERTIES

- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
- Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
- Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568

THERMODYNAMICS

- Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351

THERMOELECTRIC GENERATORS

- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
- Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031

THERMOELECTRIC MATERIALS

- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

THERMOELECTRIC POWER GENERATION

- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612

THERMOELECTRICITY

- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
- Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385

THERMOLUMINESCENCE

- Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106
- Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

THERMOMAGNETIC EFFECTS

- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

THERMOMETERS

- Platinum resistance thermometer circuit
[NASA-CASE-MS-12327-1] c 35 N77-27368
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

THERMOPHYSICAL PROPERTIES

- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

THERMOPILES

- Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

- Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
- Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

THERMOPLASTIC FILMS

- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MS-18382-2] c 27 N84-14324
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

THERMOPLASTIC RESINS

- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of the thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
- Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
- Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
- Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N92-21711

THERMOPLASTICITY

- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MS-18382-1] c 27 N82-16238
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
- Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
- A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
- A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
- Tough, high performance, addition-type thermoplastic polymers
[NASA-CASE-LAR-14346-1] c 27 N92-22044
- THERMOREGULATION
- Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147

THERMOSETTING RESINS

- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
- Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MS-21169-1] c 27 N89-29539
- Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
- Semi-interpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N92-21711

THERMOSTATS

- Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
- Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602

THICK FILMS

- Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762

THICKNESS

- Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
- Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
- Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150

THIN FILMS

- Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
- Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232

Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783

Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199

Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170

Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784

Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487

Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740

Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751

Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476

Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143

Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087

System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161

Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029

Integrated structure vacuum tube
[NASA-CASE-LAR-10445-1] c 31 N76-31365

Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436

Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163

Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424

Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966

Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

Low cost, formable, high T(subc) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529

Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755

Reflection type skin friction meter
[NASA-CASE-LAR-14520-1-SB] c 02 N92-10008

Solid lubricants on pretreated surfaces
[NASA-CASE-LEW-14474-2] c 27 N92-11186

Polyimides containing amide and perfluoroisopropyl connecting groups
[NASA-CASE-LAR-14608-1] c 27 N92-17676

Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

A shear sensitive monomer-polymer laminate structure and method of using same
[NASA-CASE-LAR-14654-1] c 39 N92-30317

Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N92-33020

THIN PLATES

Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435

Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383

Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

THIN WALLED SHELLS

Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577

Method and apparatus for producing microshells
[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240

THIN WALLS

Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693

Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287

Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418

Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059

THORIUM FLUORIDES

Ultra violet filter
[NASA-CASE-XNP-02340] c 23 N69-24332

THORIUM OXIDES

Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

THREADS

Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658

Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254

Blind fastening apparatus
[NASA-CASE-LAR-14542-1] c 37 N92-11354

Quick application/release nut with engagement indicator
[NASA-CASE-MSC-21799-1] c 37 N92-29150

THREE AXIS STABILIZATION

Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

THREE DIMENSIONAL FLOW

Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340

THREE DIMENSIONAL MODELS

Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-2] c 82 N92-23550

THREE DIMENSIONAL MOTION

Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942

Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842

Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922

THRESHOLD GATES

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730

THRESHOLD LOGIC

SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514

THROATS

Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

THROTTLING

Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

THRUST AUGMENTATION

Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374

Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081

Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736

... and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

THRUST BEARINGS

Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588

THRUST CHAMBER PRESSURE

Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152

THRUST CHAMBERS

Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503

Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806

Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658

Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843

Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769

Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770

Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606

Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288

Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289

Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200

THRUST CONTROL

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181

Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629

Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850

Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

THRUST LOADS

Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

THRUST MEASUREMENT

Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203

Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965

Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

THRUST REVERSAL

Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

THRUST VECTOR CONTROL

Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294

Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692

Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173

Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153

Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595

Rocket thrust throttling system
[NASA-CASE-LAR-10374-1] c 28 N73-13773

- System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
- Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
- THRUST-WEIGHT RATIO**
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
- THULIUM**
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
- THYRISTORS**
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- TILES**
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
- Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
- Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
- Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186
- TILT WING AIRCRAFT**
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- TIME**
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- TIME CONSTANT**
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- TIME DEPENDENCE**
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
- Fast temporal neural learning using teacher forcing
[NASA-CASE-NPO-18553-1-CU] c 63 N92-30085
- TIME DISCRIMINATION**
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- TIME DIVISION MULTIPLEXING**
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
- Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
- Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
- Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270

TIME FUNCTIONS

- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- TIME LAG**
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
- Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
- Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
- Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- TIME MEASUREMENT**
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
- TIME MEASURING INSTRUMENTS**
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
- Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
- TIME OF FLIGHT SPECTROMETERS**
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
- TIME SERIES ANALYSIS**
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
- Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
- TIME SHARING**
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
- TIME SIGNALS**
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- TIMING DEVICES**
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- TIN OXIDES**
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
- TIPS**
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- TIRES**
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
- Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
- Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455
- TISSUES (BIOLOGY)**
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694

- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
- Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667
- Three-dimensional co-culture process
[NASA-CASE-MSC-21560-1] c 51 N92-34229
- Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N92-34231
- TITANATES**
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
- TITANIUM**
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- TITANIUM ALLOYS**
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Oxidation resistant coating for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N92-29090
- TITANIUM NITRIDES**
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- TITANIUM OXIDES**
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
- TOILETS**
Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
- Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
- Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
- Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
- TOLERANCES (MECHANICS)**
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
- TOLUENE**
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- TOMOGRAPHY**
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- TOOLS**
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
- Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
- Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392

Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544

Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839

Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649

Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359

Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N92-21723

Bearing servicing tool
[NASA-CASE-MSC-21881-1] c 37 N92-30082

TOOTH DISEASES
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

TOPOGRAPHY
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499

Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

TORCHES
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607

Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798

Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421

Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493

Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980

Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586

Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

TOROIDAL SHELLS
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

TOROIDS
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

TORQUE
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482

High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827

Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084

Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809

Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N92-21726

Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N92-21728

TORQUE MOTORS

Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758

Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

TORQUE SENSORS (ROBOTICS)

Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350

TORQUEMETERS

Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818

Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

TORSION

Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176

Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

TORSO

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618

TOUCH

Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463

Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122

Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

TOUGHNESS

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

Gradient tempering process
[NASA-CASE-MFS-28496-1] c 26 N92-34239

TOWERS

Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343

TOXICITY

Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451

Low toxicity high temperature PMR polyimides
[NASA-CASE-LAR-14639-1] c 27 N92-11199

TOXICITY AND SAFETY HAZARD

Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

TOXICOLOGY

Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

TRACE CONTAMINANTS

Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701

Method for removing oxygen impurities from cesium
[NASA-CASE-XNP-04262-2] c 17 N71-26773

Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245

Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

TRACE ELEMENTS

Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245

Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323

Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

TRACKED VEHICLES

Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TRACKING (POSITION)

Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736

Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140

Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542

Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840

TRACKING FILTERS

Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543

Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

TRACKING RADAR

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437

Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TRACKING STATIONS
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175

Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

TRACTION

Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

TRAFFIC CONTROL

Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888

TRAILERS

Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRAILING EDGES

Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1-CU] c 05 N92-21587

TRAILING-EDGE FLAPS

Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

TRAINING DEVICES

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

TRAINING SIMULATORS

Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494

Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

TRAJECTORIES

A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N92-22036

TRAJECTORY ANALYSIS

Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990

TRAJECTORY CONTROL
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873

TRANSUCERS
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707
A method and apparatus for indicating disbands in joint regions
[NASA-CASE-LAR-14626-1] c 38 N92-17859

Smart accelerometer --- vibration damage detection
[NASA-CASE-MSC-21951-1] c 35 N92-23545
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N92-33611

TRANSFER FUNCTIONS
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

TRANSFORMATIONS (MATHEMATICS)
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890

TRANSFORMERS
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

TRANSIENT HEATING
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

TRANSIENT LOADS
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874

TRANSISTOR AMPLIFIERS
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

TRANSISTOR CIRCUITS
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

TRANSISTORS
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
GaAs-based optoelectronic neurons
[NASA-CASE-NPO-18497-1-CU] c 63 N92-24245
Nonvolatile programmable neural network synaptic array
[NASA-CASE-NPO-18578-1-CU] c 33 N92-30086

TRANSITION FLOW
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796

TRANSITION TEMPERATURE
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

TRANSLATIONAL MOTION
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Helix translation device --- shim for precision displacements
[NASA-CASE-GSC-13141-1] c 37 N92-23548
Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N92-29140

TRANSLATORS
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

TRANSLUCENCE
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMISSION CIRCUITS
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

TRANSMISSION EFFICIENCY
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870

Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

TRANSMISSION LINES

Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191

Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429

Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198

Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956

System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

TRANSMISSION LOSS

Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304

Dual frequency optical carrier technique for transmission of reference frequencies in dispersive media
[NASA-CASE-NPO-18007-1-CU] c 74 N92-11791

TRANSMISSIONS (MACHINE ELEMENTS)

Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087

Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084

Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973

TRANSMISSIVITY

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

TRANSMITTANCE

Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMITTER RECEIVERS

Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136

Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356

TRANSMITTERS

Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840

Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118

Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486

Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725

Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

TRANSONIC SPEED

Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497

TRANSONIC WIND TUNNELS

Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183

Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

TRANSPARENCE

Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190

Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039

Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835

Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029

TRANSPARATION

Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191

Control and augmentation of passive porosity through transpiration control
[NASA-CASE-LAR-14682-1] c 34 N92-30387

TRANSPONDERS

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391

Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

TRANSPORT VEHICLES

Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

TRANSPORTATION

Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

TRANSVERSE ACCELERATION

Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

TRAPPED PARTICLES

Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

TRAPS

Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652

TRAVELING SALESMAN PROBLEM

Electronic neural network for solving traveling salesman and similar global optimization problems
[NASA-CASE-NPO-17807-2-CU] c 63 N92-29955

TRAVELING WAVE AMPLIFIERS

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088

Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251

Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

TRAVELING WAVE MASERS

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550

High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831

Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410

TRAVELING WAVE TUBES

Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554

Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339

Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742

Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724

TRAVELING WAVES

Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521

TRAYS

Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N92-34171

TREADMILLS

Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910

TREADS

Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TRIGGER CIRCUITS

Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913

Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468

SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171

Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

TRIGONOMETRY

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

TRIMERS

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244

Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276

Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

TRIODES

Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

TRITIUM

Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

TROPOPAUSE

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

TROPOSPHERE

Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

TRUCKS

Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477

Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRUSSES

Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287

Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258

Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323

Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729

Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789

Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737

Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221
Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
Robot-friendly connector --- space truss structures
[NASA-CASE-MSC-21864-1] c 37 N92-23544

TUBE GRIDS

- Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444

TUBE HEAT EXCHANGERS

- Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

TUBES

- Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

TUMBLING MOTION

- Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

TUMORS

- Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

TUNABLE LASERS

- Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

TUNGSTEN

- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

TUNGSTEN ALLOYS

- Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

TUNING

- Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

Tuned analog network

- [NASA-CASE-GSC-12650-1] c 33 N84-14421
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N92-16290

TUNNEL DIODES

- Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
Method for producing edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-2-CU] c 76 N92-22040
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-3-CU] c 76 N92-22041

TUNNELING (EXCAVATION)

- Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

TUNNELS

- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374

TURBINE BLADES

- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

TURBINE ENGINES

- High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180

TURBINE PUMPS

- Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

TURBINE WHEELS

- Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

TURBINES

- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
Method of reducing drag in aerodynamic systems
[NASA-CASE-LEW-14791-1] c 02 N92-34243

TURBOCOMPRESSORS

- Multi-stage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

TURBOFAN ENGINES

- Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

TURBOFANS

- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

TURBOGENERATORS

- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

TURBOJET ENGINE CONTROL

- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

TURBOJET ENGINES

- Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

TURBOMACHINE BLADES

- Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

TURBOMACHINERY

- Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

TURBOSHAPTS

- Optical torque meter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818

U

High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631

TURBULENCE
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

TURBULENCE EFFECTS
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

TURBULENCE METERS
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

TURBULENT BOUNDARY LAYER
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551

TURBULENT FLOW
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Active thermal isolation for temperature responsive sensors
[NASA-CASE-LAR-14612-1] c 34 N92-29954

TURNSTILE ANTENNAS
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372

TURRET
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

TWISTING
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

TWO BODY PROBLEM
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

TWO DIMENSIONAL BODIES
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

TWO PHASE FLOW
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958

TYPEWRITERS
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

U BENDS

Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

ULCERS

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ULLAGE

Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

ULTRAHIGH FREQUENCIES

Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ULTRAHIGH VACUUM

Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

ULTRAPURE METALS

Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551

ULTRASONIC AGITATION

Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514

ULTRASONIC CLEANING

Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

ULTRASONIC FLAW DETECTION

Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

ULTRASONIC RADIATION

Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
Constant frequency pulsed phase-locked loop measuring device
[NASA-CASE-LAR-13823-1] c 35 N92-10182

ULTRASONIC SCANNERS

Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

ULTRASONIC TESTS

Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395

CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
Method of recertifying a loaded bearing member using a phase point
[NASA-CASE-LAR-14741-1] c 39 N92-11384

ULTRASONIC WAVE TRANSDUCERS
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

ULTRASONIC WELDING
Ultrasonically bonded wave assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185

ULTRASONICS
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
Method of recertifying a loaded bearing member
[NASA-CASE-LAR-14168-1] c 39 N92-34174

ULTRAVIOLET FILTERS
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241

ULTRAVIOLET LASERS
Stabilization of He2(a 3 Sigma u+) molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826

ULTRAVIOLET RADIATION
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029

ULTRAVIOLET REFLECTION
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

ULTRAVIOLET SPECTRA
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

ULTRAVIOLET SPECTROMETERS
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

UMBILICAL CONNECTORS
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

UMBILICAL TOWERS
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199

UNDERWATER ENGINEERING
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

UNDERWATER TESTS
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125

UNIFORM FLOW
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969

UNIONS (CONNECTORS)
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713

UNLOADING
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

UNMANNED SPACECRAFT
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

UNSATURATION (CHEMISTRY)
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

UP-CONVERTERS
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

UPPER ATMOSPHERE
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

UPPER SURFACE BLOWING
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

URANIUM 235
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

UREAS
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

URETHANES
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

URINALYSIS
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

URINATION
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621

URINE
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

UROLOGY
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711

UTERUS
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

V

V GROOVES
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Double-V block fingers with cruciform recess
[NASA-CASE-GSC-13356-1] c 37 N92-24243

VACANCIES (CRYSTAL DEFECTS)
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

VACUUM
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N92-29117
Sample positioning in microgravity
[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083

VACUUM APPARATUS
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395

Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-33021

VACUUM CHAMBERS
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135

VACUUM DEPOSITION
A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

VACUUM EFFECTS
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

VACUUM FURNACES
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900

VACUUM GAGES

- Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
- Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
- Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
- In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092

VACUUM MELTING

- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215

VACUUM PUMPS

- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433

VACUUM SPECTROSCOPY

- Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

VACUUM SYSTEMS

- Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
- Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
- Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

VACUUM TUBES

- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

VALUE

- High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

VALVES

- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
- Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
- Multway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
- Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
- Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
- Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
- Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
- Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
- Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
- Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
- Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
- Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747

- Thruster sealing system and apparatus
[NASA-CASE-MSC-21898-1] c 37 N92-17872
- Check valve with poppet damping mechanism
[NASA-CASE-MSC-21903-1] c 37 N92-30101
- Check valve with poppet dashpot/frictional damping mechanism
[NASA-CASE-MSC-21950-1] c 37 N92-34242

VANES

- Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
- Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Electrorepulsive actuator
[NASA-CASE-NPO-17684-1-CU] c 33 N92-22042

VAPOR DEPOSITION

- A method for the deposition of beta-silicon carbide by isoeptitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
- Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
- Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
- Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
- Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
- Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
- Macromolecular crystal growing system
[NASA-CASE-MFS-26088-1-CU] c 76 N92-25398
- Alkali metal for ultraviolet band-pass filter
[NASA-CASE-NPO-18433-1-CU] c 74 N92-34241

VAPOR PHASES

- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
- Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243

VAPOR PRESSURE

- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

VAPOR TRAPS

- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

VAPORIZERS

- Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

VAPORIZING

- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
- Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N92-15114
- Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N92-34172

VAPORS

- Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
- Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

VARACTOR DIODE CIRCUITS

- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429

VARACTOR DIODES

- Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- Planar varactor frequency multiplier devices with blocking barrier
[NASA-CASE-NPO-18428-1-CU] c 33 N92-23464

VARIABLE

- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

VARIABLE CYCLE ENGINES

- Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

VARIABLE GEOMETRY STRUCTURES

- Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
- Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

VARIABLE PITCH PROPELLERS

- Dual output variable pitch turboprop actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

VARIABLE SWEEP WINGS

- Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
- Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
- Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
- Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
- Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005

VARIABLE THRUST

- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

VARIATIONS

- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

VECTOR ANALYSIS

- Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439

VECTOR CURRENTS

- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

VECTOR QUANTIZATION

- Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

VECTOCARDIOGRAPHY

- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- VECTORS (MATHEMATICS)**
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918
- VEGETATION GROWTH**
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- VEHICLE WHEELS**
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- VEHICLES**
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
- VEHICULAR TRACKS**
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034
- VELOCITY**
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- VELOCITY COUPLING**
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- VELOCITY MEASUREMENT**
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N92-34172
- VELOCITY MODULATION**
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
- VENTILATION**
Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679

- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
- VENTILATORS**
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- VENTING**
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156
- VENTURI TUBES**
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
- VENUS (PLANET)**
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- VERTICAL FLIGHT**
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- VERTICAL LANDING**
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- VERTICAL ORIENTATION**
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
- VERTICAL TAKEOFF AIRCRAFT**
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
- VERY HIGH FREQUENCIES**
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
- VERY LARGE SCALE INTEGRATION**
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N92-15620
Nonvolatile programmable neural network synaptic array
[NASA-CASE-NPO-18578-1-CU] c 33 N92-30086
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N92-33011
Cascaded VLSI neural network architecture for on-line learning
[NASA-CASE-NPO-18645-1-CU] c 63 N92-34240
- VERY LONG BASE INTERFEROMETRY**
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
- VESTS**
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
- VIBRATION**
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10108-1] c 15 N71-27169
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155

- Accelerometer method and apparatus for integral display and control functions
[NASA-CASE-MSC-21961-1] c 35 N92-29952
- VIBRATION DAMPING**
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Multi-degree of freedom, active vibration control method, and system
[NASA-CASE-LAR-14508-1-CU] c 39 N92-10202
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N92-33031
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N92-34173
- VIBRATION EFFECTS**
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
- VIBRATION ISOLATORS**
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Vacuum-isolation vessel and method for measurement of thermal noise in microphones
[NASA-CASE-LAR-14567-1-CU] c 33 N92-33021
- VIBRATION MEASUREMENT**
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607

Smart accelerometer --- vibration damage detection
[NASA-CASE-MSC-21951-1] c 35 N92-23545

VIBRATION METERS

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

Smart accelerometer --- vibration damage detection
[NASA-CASE-MSC-21951-1] c 35 N92-23545

VIBRATION MODE

Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

VIBRATION SIMULATORS

Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416

VIBRATION TESTS

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185

Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412

Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416

Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

VIBRATIONAL SPECTRA

Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006

VIDEO COMMUNICATION

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026

Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

VIDEO DATA

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081

Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431

Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224

VIDEO EQUIPMENT

Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742

Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865

Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341

Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156

Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235

Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400

VIDEO SIGNALS

Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598

Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N92-10128

VIDEO TAPE RECORDERS

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

VIDEO TAPES

Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

VIDICONS

Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189

Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

VIEWING

Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920

Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N92-16809

Polarization perception device
[NASA-CASE-MSC-21915-1] c 74 N92-30027

VINYL COPOLYMERS

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

VINYL POLYMERS

Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256

Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

VINYLDIENE

Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

VIRUSES

Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

VISCOELASTICITY

Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161

Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573

Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409

Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

VISCOMETERS

Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

VISCOSITY

Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124

Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357

Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456

A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

VISCOUS DAMPING

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486

Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894

Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

VISIBILITY

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673

EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

VISIBLE SPECTRUM

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISION

Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

VISORS

Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834

VISUAL ACUITY

Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

VISUAL AIDS

Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

VISUAL CONTROL

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISUAL FIELDS

Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072

Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

VISUAL OBSERVATION

Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

VISUAL PERCEPTION

Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074

Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256

VISUAL STIMULI

Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114

VITERBI DECODERS

Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

VOICE COMMUNICATION

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958

Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621

Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108

Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372

Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

VOICE DATA PROCESSING

Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

Method and apparatus for operating on compressed PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

VOIDS

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259

Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

VOLATILITY

- Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
- VOLT-AMPERE CHARACTERISTICS**
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
- VOLTAGE AMPLIFIERS**
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942
Transformerless DC-DC voltage amplifier with optically isolated switching devices
[NASA-CASE-NPO-17994-1-CU] c 33 N92-17907
- VOLTAGE CONTROLLED OSCILLATORS**
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709
- VOLTAGE CONVERTERS (DC TO DC)**
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays
[NASA-CASE-GSC-13450-1] c 44 N92-23463
- VOLTAGE GENERATORS**
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- VOLTAGE REGULATORS**
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986

- Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- VOLTMETERS**
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
- VOLUME**
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
- VOLUMETRIC ANALYSIS**
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
- VOMITING**
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- VORTEX BREAKDOWN**
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
- VORTEX GENERATORS**
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- VORTICES**
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
Method of measuring cross-flow vortices by use of an array of hot-film sensors
[NASA-CASE-LAR-14824-1-SB] c 34 N92-30390

VORTICITY

- Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410

VULCANIZING

- Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

VULNERABILITY

- Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216

W

WAFERS

- Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
High voltage V-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489

WAKES

- Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

WALKING

- Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714

WALKING MACHINES

- Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828

WALL FLOW

- Atmospheric pressure flow reactor: Gas phase chemical kinetics under tropospheric conditions without wall effects
[NASA-CASE-MSC-21384-1] c 34 N92-16243
- WALL TEMPERATURE**
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- WALLS**
- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
- Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913
- WARNING SYSTEMS**
- Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
- Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
- Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
- System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
- Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
- Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
- Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
- Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
- Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
- Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
- Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
- Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583
- Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-2] c 52 N92-11621
- WASHING**
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455
- WASTE DISPOSAL**
- Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
- An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
- Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
- Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
- Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
- Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
- Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
- Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
- Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
- Space station trash removal system
[NASA-CASE-MSC-21723-1] c 18 N92-30315
- Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612
- WASTE ENERGY UTILIZATION**
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- WASTE HEAT**
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- Lunar radiator shade
[NASA-CASE-MSC-21868-1] c 54 N92-21589
- WASTE UTILIZATION**
- Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
- WASTE WATER**
- Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
- Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
- WASTES**
- Sharps container
[NASA-CASE-MSC-21776-1] c 31 N92-33612
- WATER**
- High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
- Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
- Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
- Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
- Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
- Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455
- Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
- Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N92-29135
- Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029
- WATER FLOW**
- Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
- WATER INJECTION**
- Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284
- WATER LANDING**
- Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
- Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
- WATER MANAGEMENT**
- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
- Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701
- WATER POLLUTION**
- Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
- Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
- WATER QUALITY**
- Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
- Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- WATER RECLAMATION**
- Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
- Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
- Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- Whole body cleaning agent containing N-acetyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137
- WATER RESOURCES**
- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- WATER SPLITTING**
- Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
- Water electrolysis
[NASA-CASE-MSC-21572-1-SB] c 25 N92-28756
- WATER TEMPERATURE**
- Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
- WATER TREATMENT**
- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
- Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
- Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
- Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
- Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
- Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
- Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
- Purification system
[NASA-CASE-MSC-21584-1] c 25 N92-33029
- WATER VAPOR**
- Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
- Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496
- WATER WAVES**
- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- WATERPROOFING**
- Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
- Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918
- WATERWAVE ENERGY CONVERSION**
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- WAVE AMPLIFICATION**
- Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

WAVE DIFFRACTION

- Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
- WAVE FRONT RECONSTRUCTION**
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
- WAVE FRONTS**
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
- WAVE GENERATION**
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- WAVE INTERACTION**
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- WAVE PROPAGATION**
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- WAVE REFLECTION**
Microwave flow detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
- WAVE RESISTANCE**
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- WAVE SCATTERING**
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
- WAVEFORMS**
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
- WAVEGUIDE ANTENNAS**
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
- WAVEGUIDE FILTERS**
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
- WAVEGUIDE WINDOWS**
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
- WAVEGUIDES**
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141

- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
Method for non-destructive estimation of waveguide directional coupler dimensions
[NASA-CASE-NPO-18454-1-CU] c 33 N92-17865
Coaxial turnstile junction
[NASA-CASE-GSC-13422-1] c 33 N92-23462
- WAVELENGTHS**
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Diatom infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
- WEARS**
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- WEAR**
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
- WEAR INHIBITORS**
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- WEAR RESISTANCE**
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
- WEATHERPROOFING**
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- WEAVING**
Integral fill yarn insertion and beatup method
[NASA-CASE-LAR-14046-1] c 31 N92-11219
Woven angle ply fabric and apparatus and method for producing such fabrics
[NASA-CASE-LAR-14048-1] c 31 N92-11220
- WEBS (SHEETS)**
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484

- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- WEBS (SUPPORTS)**
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
Device for mechanically stabilizing web ribbon buttons during growth initiation
[NASA-CASE-NPO-17074-2-CU] c 76 N92-21499
- WEDGES**
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
- WEIGHT (MASS)**
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- WEIGHT INDICATORS**
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- WEIGHT MEASUREMENT**
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
- WEIGHTLESSNESS**
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
- Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
- Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
- Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
- Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
- Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
- Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
- Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
- Treadmill for space flight
[NASA-CASE-MSC-21752-1] c 54 N92-17910
- Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137
- Cryogenic shutter
[NASA-CASE-GSC-13189-2] c 37 N92-29151
- WEIGHTLESSNESS SIMULATION**
- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
- Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
- Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
- Hollow fiber clinostat for simulating microgravity in cell culture
[NASA-CASE-MFS-28370-1] c 35 N92-31790
- WELD STRENGTH**
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- WELD TESTS**
- Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
- Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
- WELDED JOINTS**
- Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
- Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
- Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
- Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
- Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
- Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476
- WELDED STRUCTURES**
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265
- WELDING**
- Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
- Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
- Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
- Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
- WELDING MACHINES**
- Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
- Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
- Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
- Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
- High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N92-29094
- WET CELLS**
- Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
- WET SPINNING**
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
- WETTING**
- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
- Whole body cleaning agent containing N-acyltaurate
[NASA-CASE-MSC-21589-1] c 54 N92-29137
- WHEATSTONE BRIDGES**
- Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
- Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
- Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N92-29097
- WHEELS**
- Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
- Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N92-28754
- WHISKER COMPOSITES**
- Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
- WHISKERS (CRYSTALS)**
- Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
- WICKS**
- Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
- Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
- WIDE ANGLE LENSES**
- Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857
- Wide field strip-imaging optical system
[NASA-CASE-NPO-18146-1-CU] c 74 N92-17892
- WIDEBAND COMMUNICATION**
- Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
- WINCHES**
- Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
- WIND DIRECTION**
- Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742
- WIND EFFECTS**
- Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
- Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- WIND MEASUREMENT**
- Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
- Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
- Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- WIND PROFILES**
- Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281
- WIND SHEAR**
- CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
- Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- WIND TUNNEL APPARATUS**
- Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
- Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
- Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
- Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
- Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
- Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149
- Pilot-pressure probe for measuring pressure in a hypersonic wind tunnel
[NASA-CASE-LAR-14232-1] c 09 N92-34213
- WIND TUNNEL CALIBRATION**
- Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
- WIND TUNNEL DRIVES**
- Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
- WIND TUNNEL MODELS**
- Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
- Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
- Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
- Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
- Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

WIND TUNNEL NOZZLES

- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
- Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
- Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175
- WIND TUNNEL TESTS**
- Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
- Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
- Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N92-10185
- Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N92-21710
- WIND TUNNEL WALLS**
- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- WIND TUNNELS**
- Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
- Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
- Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
- Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
- Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175
- Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149
- WIND TURBINES**
- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- WIND VELOCITY**
- Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- WIND VELOCITY MEASUREMENT**
- Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281
- Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- WINDING**
- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
- Counter-balanced, multiple cable construction crane
[NASA-CASE-LAR-14565-1-CU] c 37 N92-34212
- WINDMILLS (WINDPOWERED MACHINES)**
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
- Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742
- WINDOWS (APERTURES)**
- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

- Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
- WINDPOWER UTILIZATION**
- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- WINDPOWERED GENERATORS**
- Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- WINDSHIELDS**
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- WING CAMBER**
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
- WING FLAPS**
- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
- WING PROFILES**
- Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
- Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- WING ROOTS**
- Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
- WING SLOTS**
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
- WING TIP VORTICES**
- Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
- WING TIPS**
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
- WINGS**
- Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
- Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
- Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
- WIRE**
- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
- Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
- Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
- Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
- Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
- Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454

- Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
- Low cost, formable, high T(subc) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529
- Permanent wire splicing by an explosive joining process
[NASA-CASE-LAR-13825-1] c 31 N92-16162
- Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N92-29120
- Flexible heating head for induction heating apparatus and method
[NASA-CASE-LAR-14418-1] c 32 N92-31257
- Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N92-33032
- WIRE BRIDGE CIRCUITS**
- Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
- WIRE CLOTH**
- Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
- Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
- WIRE WINDING**
- Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
- Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
- Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539
- WIRELESS COMMUNICATION**
- Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
- RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
- WIRING**
- Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
- Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
- WOOD**
- Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
- WOODEN STRUCTURES**
- Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
- WORDS (LANGUAGE)**
- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
- Digital memory in which the driving of each word location is controlled by a switch core Patent
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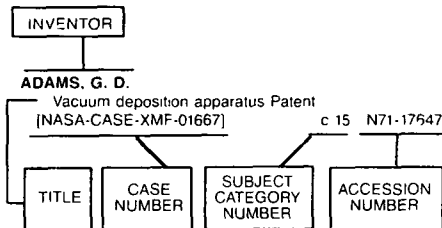
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[NASA-CASE-LAR-14679-2] c 32 N92-31150
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[NASA-CASE-LEW-13620-1] c 44 N83-13579
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[NASA-CASE-ARC-11402-1] c 27 N84-22744
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[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
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[NASA-CASE-ARC-11402-3] c 23 N86-21582
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[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

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[NASA-CASE-GSC-12022-1] c 44 N76-28635
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[NASA-CASE-LEW-14791-1] c 02 N92-34243
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[NASA-CASE-GSC-12550-1] c 37 N84-28082
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[NASA-CASE-GSC-10656-1] c 09 N72-25249
- HRUBY, R. J.**
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[NASA-CASE-ARC-10003-1] c 09 N71-25866
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[NASA-CASE-ARC-10176-1] c 15 N72-21464
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[NASA-CASE-ARC-10330-1] c 09 N73-32112
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[NASA-CASE-ARC-10897-1] c 33 N77-31404
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[NASA-CASE-NPO-13620-1] c 27 N77-30236
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[NASA-CASE-NPO-13937-1] c 44 N78-31527
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[NASA-CASE-NPO-13904-1] c 25 N79-11152
- Coal desulfurization
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- Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
- HSU, IN-SHEK**
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
- VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
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[NASA-CASE-LEW-12053-1] c 27 N78-15276
- In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481

- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- In-situ cross linking of polyvinyl alcohol
[NASA-CASE-LEW-13135-2] c 27 N81-24257
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[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
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[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
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[NASA-CASE-ARC-11891-2-SB] c 27 N92-34160
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[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
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- Preparation of B-trichloroborazine
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- Boron-containing organosilane polymers and ceramic materials thereof
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[NASA-CASE-XLE-02083] c 03 N69-39983
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[NASA-CASE-MS-C-21381-1] c 63 N91-13944
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[NASA-CASE-NPO-13982-1] c 32 N79-14267
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[NASA-CASE-LAR-14779-1] c 74 N92-29951
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[NASA-CASE-MFS-23720-2] c 43 N80-14423
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[NASA-CASE-ARC-10596-1] c 33 N74-21851
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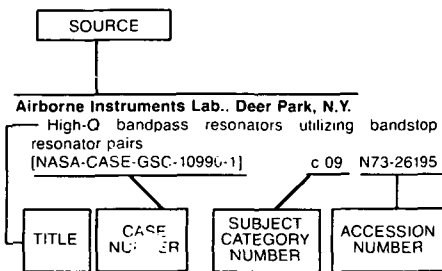
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[NASA-CASE-XNP-00745] c 10 N71-28960
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
Specific wavelength colorimeter
[NASA-CASE-MSC-14081-1] c 35 N74-27860
- Beckman Instruments, Inc., Pasadena, CA.**
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
- Becton, Dickinson and Co., Rutherford, NJ.**
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
- Beech Aircraft Corp., Boulder, CO.**
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
- Bell Aerospace Co., Buffalo, NY.**
Modulator for tone and binary signals
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Correlation type phase detector
[NASA-CASE-GSC-11744-1] c 33 N75-26243
- Bell Aerosystems Co., Buffalo, NY.**
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
- Bell and Howell Co., Chicago, IL.**
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Process for producing a well-adhered durable optical coating on an optical plastic substrate
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- Bellcomm, Inc., Washington, DC.**
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
- Bendix Corp., Ann Arbor, MI.**
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
- Bendix Corp., Columbia, MD.**
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[NASA-CASE-GSC-12171-1] c 33 N79-28416
- Bendix Corp., Davenport, IA.**
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[NASA-CASE-MSC-13587-1] c 15 N73-30459
- Bendix Corp., Detroit, MI.**
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- Bendix Corp., Huntsville, AL.**
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Bendix Corp., Kennedy Space Center, FL.**
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- Bendix Corp., Teterboro, NJ.**
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
- Bendix Research Labs., Southfield, MI.**
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[NASA-CASE-GSC-11602-1] c 33 N74-21850
- Bionetics Corp., Hampton, VA.**
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[NASA-CASE-LAR-12552-1] c 35 N82-11431
- Boeing Aerospace Co., Houston, TX.**
Fluid sample collection and distribution system
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- Boeing Aerospace Co., Seattle, WA.**
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Boeing Co., Cocoa Beach, FL.**
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- Variable resistance constant tension and lubrication device
[NASA-CASE-KSC-10723-1] c 37 N75-13265
- Boeing Co., Houston, TX.**
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
- Boeing Co., Huntsville, AL.**
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
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[NASA-CASE-MFS-15162] c 14 N72-32452
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- Boeing Co., Pasadena, TX.**
Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- Boeing Co., Seattle, WA.**
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Plasma cleaning device
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392
- Boeing Commercial Airplane Co., Seattle, WA.**
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
- Borden, Inc., New York, NY.**
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Borg-Warner Corp., Chicago, IL.**
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- Brown and Root-Northrop, Houston, TX.**
Anti-fog composition
[NASA-CASE-MSC-13530-2] c 23 N75-14834
- Brown Engineering Co., Inc., Huntsville, AL.**
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
- California Computer Products, Inc., Anaheim.**
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
- California Inst. of Tech., Pasadena.**
Attitude control for spacecraft Patent
[NASA-CASE-NPO-02982] c 31 N70-41855
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Interferometer
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Electronic system for high power load control
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Radiative cooler
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Programmable scan/read circuitry for charge coupled device imaging detectors
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
- California Univ., Berkeley.**
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
- California Univ., Los Angeles.**
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Continuous plasma laser
[NASA-CASE-XNP-04167-3] c 36 N77-19416
- Catholic Univ. of America, Washington, DC.**
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
- Chance Vought Corp., Dallas, TX.**
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
- Christopher Newport Coll., Newport News, VA.**
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- Chrysler Corp., Detroit, MI.**
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
- Chrysler Corp., Huntsville, AL.**
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- Collins Radio Co., Cedar Rapids, IA.**
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
- Collins Radio Co., Dallas, TX.**
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430

- Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MS-12389] c 33 N71-29052
- Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
- Colorado State Univ., Fort Collins.**
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Comprehensive Designers, Inc., Sherman Oaks, CA.**
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
- Computer Control Co., Inc., Framingham, MA.**
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
- Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- Computer Sciences Corp., Falls Church, VA.**
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- Computer Sciences Corp., Greenbelt, MD.**
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- Computer Sciences Corp., Mountain View, CA.**
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
- Conrac Corp., Pasadena, CA.**
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MS-12280] c 27 N71-16348
- Consolidated Controls Corp., El Segundo, CA.**
Low temperature latching solenoid
[NASA-CASE-MS-18106-1] c 33 N82-11357
- Cornell Univ., Ithaca, NY.**
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- Crane Co., Burbank, CA.**
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
- Curtiss-Wright Corp., Wood-Ridge, NJ.**
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[NASA-CASE-XLE-103477-1] c 28 N71-20330
- Cutler-Hammer, Inc., Melville, NY.**
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

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- Delaware Univ., Newark.**
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
- Denver Univ., CO.**
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
- Department of Transportation, Cambridge, MA.**
Optical noise suppression device and method
[NASA-CASE-MS-12640-1] c 74 N76-31998
- Dorne and Margolin, Inc., Bohemia, NY.**
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- Douglas Aircraft Co., Inc., Santa Monica, CA.**
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
- Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
- Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
- Collapse pistons
[NASA-CASE-MS-13789-1] c 11 N73-32152
- Duke Univ., Durham, NC.**
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
- Dumont Electron Tubes, Clifton, NJ.**
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- Dynatherm Corp., Cockeysville, MD.**
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

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- Echo Science Corp., Mountain View, CA.**
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
- Eitel-McCullough, Inc., San Carlos, CA.**
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Electrac, Inc., Anaheim, CA.**
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
- Electric Storage Battery Co., Raleigh, NC.**
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
- Storage battery comprising negative plates of a wedge shaped configuration
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Electric Storage Battery Co., Yardley, PA.**
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
- Electro-Optical Systems, Inc., Pasadena, CA.**
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
- Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
- Electronic Image Systems Corp., Cambridge, MA.**
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
- Elotret Corp., Palo Alto, CA.**
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
- Essex Corp., Huntsville, AL.**
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- Ewen Knight Corp., East Natick, MA.**
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

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Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- Fairchild Republic Co., Farmingdale, NY.**
Surface conforming thermal/pressure seal
[NASA-CASE-MS-18422-1] c 37 N82-16408
- Faraday Labs., Inc., La Jolla, CA.**
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- Federal-Mogul Corp., Los Alamitos, CA.**
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Florida Univ., Gainesville.**
Safety flywheel
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- FMC Corp., New York, NY.**
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- Foothill Coll., Los Altos Hills, CA.**
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- Ford Motor Co., Dearborn, MI.**
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

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- Garrett Corp., Los Angeles, CA.**
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MS-10960-1] c 03 N71-24718
- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
- Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MS-13335-1] c 06 N72-31140
- Flexible joint for pressurizable garment
[NASA-CASE-MS-11072] c 54 N74-32546
- Gas compression apparatus
[NASA-CASE-MS-14757-1] c 35 N78-10428
- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
- Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- Garrett Corp., Torrance, CA.**
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- GCA Corp., Bedford, MA.**
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- General Dynamics/Astronautics, San Diego, CA.**
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
- Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
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Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
- Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
- General Dynamics Corp., San Diego, CA.**
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
- General Electric Co., Cincinnati, OH.**
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
- Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

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Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871

Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Thrust reverser for a long duct fan engine
[NASA-CASE-LEW-13199-1] c 07 N82-26293

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

General Electric Co., Cleveland, OH.
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

General Electric Co., Philadelphia, PA.
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MS-13917-1] c 05 N72-15098

Method for measuring cutaneous sensory perception
[NASA-CASE-MS-13609-1] c 05 N72-25122

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[NASA-CASE-MS-13604-1] c 05 N73-13114

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[NASA-CASE-NPO-18499-1-CU] c 37 N92-24042
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[NASA-CASE-NPO-17807-2-CU] c 63 N92-29955
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[NASA-CASE-NPO-18448-1-CU] c 29 N92-30083
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[NASA-CASE-NPO-18478-1-CU] c 74 N92-30084
- Fast temporal neural learning using teacher forcing
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- Nonvolatile programmable neural network synaptic array
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[NASA-CASE-NPO-17852-1-CU] c 63 N92-33019

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[NASA-CASE-NPO-18379-1-CU] c 74 N92-33022

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[NASA-CASE-NPO-17997-1-CU] c 60 N92-33057

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[NASA-CASE-NPO-18690-1-CU] c 37 N92-34205

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[NASA-CASE-MSC-14331-3] c 27 N78-32262

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[NASA-CASE-MSC-18382-1] c 27 N82-16238

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[NASA-CASE-XAC-03777] c 10 N71-15909

Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990

High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042

Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073

Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089

Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098

Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653

Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729

Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594

Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

Two force component measuring device Patent
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Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816

Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072

Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177

Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

Hall current measuring apparatus having a series resistor for temperature compensation Patent
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Transfer valve Patent
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Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

Control device Patent
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Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971

Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232

Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597

Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813

Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

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Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673

Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754

- Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- Line following servosystem Patent
[NASA-CASE-ARC-00001] c 15 N71-28952
- Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-ARC-00048] c 02 N71-29128
- Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
- High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
- Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
- Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
- Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
- Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
- RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
- Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
- Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
- Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
- Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
- Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
- Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
- Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
- Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
- Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
- Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
- Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
- Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
- Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Flexible fire retardant polyisocyanate modified neoprene foam
[NASA-CASE-ARC-10180-1] c 27 N74-12814
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
- Bimetallic fluid displacement apparatus
[NASA-CASE-ARC-10441-1] c 35 N74-15126
- Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
- Ultrasonic biomedical measuring and recording apparatus
[NASA-CASE-ARC-10597-1] c 52 N74-20726
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- High speed shutter
[NASA-CASE-ARC-10516-1] c 70 N74-21300
- Bio-isolated dc operational amplifier
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
- Chromato-fluorographic drug detector
[NASA-CASE-ARC-10633-1] c 25 N74-26947
- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
- Photomultiplier circuit including means for rapidly reducing the sensitivity thereof
[NASA-CASE-ARC-10593-1] c 33 N74-27682
- Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
- Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
- Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c 25 N75-12087
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
- Continuous Fourier transform method and apparatus
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- Dual wavelength scanning Doppler velocimeter
[NASA-CASE-ARC-10637-1] c 35 N75-16783
- Signal conditioning circuit apparatus
[NASA-CASE-ARC-10348-1] c 33 N75-19518
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
- Reversed cowl flap inlet thrust augmentor
[NASA-CASE-ARC-10754-1] c 07 N75-24736
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- Rotary plant growth accelerating apparatus
[NASA-CASE-ARC-10722-1] c 51 N75-25503
- Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
- Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
- Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Diatomic infrared gasdynamic laser
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
- Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
- Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector
[NASA-CASE-ARC-10631-1] c 74 N76-20958
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
- Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
- Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
- Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
- Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- System for measuring Reynolds in a turbulently flowing fluid
[NASA-CASE-ARC-10755-2] c 34 N76-27517
- Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
- Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
- Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
- Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
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[NASA-CASE-ARC-10761-1] c 07 N77-18154
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- Rotating launch device for a remotely piloted aircraft
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- Tubular sublimatory evaporator heat sink
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- Selective data segment monitoring system
[NASA-CASE-ARC-10899-1] c 60 N77-19760
- All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
- Metallic hot wire anemometer
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
- Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
- Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
- System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
- Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
- Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
- Intumescent coatings containing 4,4'-dinitrosulfanilide
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- Automatic multiple-sample applicator and electrophoresis apparatus
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Apparatus for measuring current flow Patent
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Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432

Wide range data compression system Patent
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Apparatus for computing square roots Patent
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Method and apparatus for battery charge control Patent
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Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466

Tracking antenna system Patent
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Electrochemical coulometer and method of forming same Patent
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Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571

Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082

Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529

Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705

Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988

Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996

Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998

Digital telemetry system Patent [NASA-CASE-XGS-01812]	c 07 N71-23001	Millimeter wave antenna system Patent Application [NASA-CASE-GSC-10949-1]	c 07 N71-28965	Apparatus for vibrational testing of articles [NASA-CASE-GSC-11302-1]	c 14 N73-13416
Bonded elastomeric seal for electrochemical cells Patent [NASA-CASE-XGS-02631]	c 03 N71-23006	Sampled data controller Patent [NASA-CASE-GSC-10554-1]	c 08 N71-29033	Method and system for ejecting fairing sections from a rocket vehicle [NASA-CASE-GSC-10590-1]	c 31 N73-14853
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent [NASA-CASE-XGS-02607]	c 31 N71-23009	Variable digital processor including a register for shifting and rotating bits in either direction Patent [NASA-CASE-GSC-10186]	c 08 N71-33110	Plural beam antenna [NASA-CASE-GSC-11013-1]	c 09 N73-19234
Complementary regenerative switch Patent [NASA-CASE-XGS-02751]	c 09 N71-23015	Combustion products generating and metering device [NASA-CASE-GSC-11095-1]	c 14 N72-10375	Star tracking reticles and process for the production thereof [NASA-CASE-GSC-11188-2]	c 21 N73-19630
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent [NASA-CASE-XGS-03427]	c 10 N71-23029	Analog spatial maneuver computer [NASA-CASE-GSC-10880-1]	c 08 N72-11172	Delayed simultaneous release mechanism [NASA-CASE-GSC-10814-1]	c 03 N73-20039
Sidereal frequency generator Patent [NASA-CASE-XGS-02610]	c 14 N71-23174	Helical recorder arrangement for multiple channel recording on both sides of the tape [NASA-CASE-GSC-10614-1]	c 09 N72-11224	Doppler compensation by shifting transmitted object frequency within limits [NASA-CASE-GSC-10087-4]	c 07 N73-20174
Solar cell and circuit array and process for nullifying magnetic fields Patent [NASA-CASE-XGS-03390]	c 03 N71-23187	Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence [NASA-CASE-GSC-11133-1]	c 23 N72-11568	Signal-to-noise ratio determination circuit [NASA-CASE-GSC-11239-1]	c 10 N73-25241
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent [NASA-CASE-XGS-03632]	c 09 N71-23311	Position location system and method [NASA-CASE-GSC-10087-3]	c 07 N72-12080	Nutation damper [NASA-CASE-GSC-11205-1]	c 15 N73-25513
Sealed electrochemical cell provided with a flexible casing Patent [NASA-CASE-XGS-01513]	c 03 N71-23336	Facsimile video remodulation network [NASA-CASE-GSC-10185-1]	c 07 N72-12081	Low outgassing polydimethylsiloxane material and preparation thereof [NASA-CASE-GSC-11358-1]	c 06 N73-26100
Digitally controlled frequency synthesizer Patent [NASA-CASE-XGS-02317]	c 09 N71-23525	Frangible electrochemical cell [NASA-CASE-XGS-10010]	c 03 N72-15986	Method of detecting and counting bacteria in body fluids [NASA-CASE-GSC-11092-2]	c 04 N73-27052
Radio frequency coaxial high pass filter Patent [NASA-CASE-XGS-01418]	c 09 N71-23573	Caterpillar micro positioner [NASA-CASE-GSC-10780-1]	c 14 N72-16283	Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves [NASA-CASE-GSC-10225-1]	c 06 N73-27086
Apparatus for phase stability determination Patent [NASA-CASE-XGS-01118]	c 10 N71-23662	Minimech self-deploying boom mechanism [NASA-CASE-GSC-10566-1]	c 15 N72-18477	Process for making RF shielded cable connector assemblies and the products formed thereby [NASA-CASE-GSC-11215-1]	c 09 N73-28083
Tape recorder Patent [NASA-CASE-XGS-08259]	c 14 N71-23698	Heated porous plug microthruster [NASA-CASE-GSC-10640-1]	c 28 N72-18766	Device for determining relative angular position between a spacecraft and a radiation emitting celestial body [NASA-CASE-GSC-11444-1]	c 14 N73-28490
Balance torque meter Patent [NASA-CASE-XGS-01013]	c 14 N71-23725	Optimum performance spacecraft solar cell system [NASA-CASE-GSC-10669-1]	c 03 N72-20031	Fastener stretcher [NASA-CASE-GSC-11149-1]	c 15 N73-30457
Mechanical actuator Patent [NASA-CASE-XGS-04548]	c 15 N71-24045	Monostable multivibrator [NASA-CASE-GSC-10082-1]	c 10 N72-20221	Spacecraft attitude sensor [NASA-CASE-GSC-10890-1]	c 21 N73-30640
Selective plating of etched circuits without removing previous plating Patent [NASA-CASE-XGS-03120]	c 15 N71-24047	Roll alignment detector [NASA-CASE-GSC-10514-1]	c 14 N72-20379	Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions [NASA-CASE-GSC-11169-2]	c 05 N73-32011
Alkali metal silicate protective coating Patent [NASA-CASE-XGS-04799]	c 18 N71-24183	Cosmic dust sensor [NASA-CASE-GSC-10503-1]	c 14 N72-20381	Star tracking reticles [NASA-CASE-GSC-11188-1]	c 14 N73-32320
Strain gauge measuring techniques Patent [NASA-CASE-XGS-04478]	c 14 N71-24233	Solenoid valve including guide for armature and valve member [NASA-CASE-GSC-10607-1]	c 15 N72-20442	Peen plating [NASA-CASE-GSC-11163-1]	c 15 N73-32360
Electromagnetic polarization systems and methods Patent [NASA-CASE-GSC-10021-1]	c 09 N71-24595	Fast response low power drain logic circuits [NASA-CASE-GSC-10878-1]	c 10 N72-22236	Recorder/processor apparatus [NASA-CASE-GSC-11553-1]	c 35 N74-15831
Redundant actuating mechanism Patent [NASA-CASE-XGS-08718]	c 15 N71-24600	Trap for preventing diffusion pump backstreaming [NASA-CASE-GSC-10518-1]	c 15 N72-22489	Method of making porous conductive supports for electrodes [NASA-CASE-GSC-11367-1]	c 44 N74-19692
Satellite communication system and method Patent [NASA-CASE-GSC-10118-1]	c 07 N71-24621	Resistance soldering apparatus [NASA-CASE-GSC-10913]	c 15 N72-22491	Formation of star tracking reticles [NASA-CASE-GSC-11188-3]	c 74 N74-20008
Programmable telemetry system Patent [NASA-CASE-GSC-10131-1]	c 07 N71-24624	Optical system support apparatus [NASA-CASE-XER-07896-2]	c 23 N72-22673	Radiation hardening of MOS devices by boron [NASA-CASE-GSC-11425-1]	c 76 N74-20329
Coulometer and third electrode battery charging circuit Patent [NASA-CASE-GSC-10487-1]	c 03 N71-24719	SCR lamp driver [NASA-CASE-GSC-10221-1]	c 09 N72-23171	Amplitude steered array [NASA-CASE-GSC-11446-1]	c 33 N74-20860
Electronic scanning of 2-channel monopulse patterns Patent [NASA-CASE-GSC-10299-1]	c 09 N71-24804	Potassium silicate zinc coatings [NASA-CASE-GSC-10361-1]	c 18 N72-23581	Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly [NASA-CASE-GSC-11560-1]	c 33 N74-20861
Annular slit colloid thruster Patent [NASA-CASE-GSC-10709-1]	c 28 N71-25213	Synchronous orbit battery cyclor [NASA-CASE-GSC-11211-1]	c 03 N72-25020	Ultra-stable oscillator with complementary transistors [NASA-CASE-GSC-11513-1]	c 33 N74-20862
Voltage to frequency converter Patent [NASA-CASE-GSC-10022-1]	c 10 N71-25882	Flavin coenzyme assay [NASA-CASE-GSC-10565-1]	c 06 N72-25149	High efficiency multifrequency feed [NASA-CASE-GSC-11909]	c 32 N74-20863
Direct current motor with stationary armature and field Patent [NASA-CASE-XGS-05290]	c 09 N71-25999	Location identification system [NASA-CASE-ERC-10324]	c 07 N72-25173	Turnstile slot antenna [NASA-CASE-GSC-11428-1]	c 32 N74-20864
Buck boost voltage regulation circuit Patent [NASA-CASE-XGS-10735-1]	c 10 N71-26085	A dc to ac to dc converter having transistor synchronous rectifiers [NASA-CASE-GSC-11126-1]	c 09 N72-25253	Method and apparatus for checking fire detectors [NASA-CASE-GSC-11600-1]	c 35 N74-21019
Adaptive system and method for signal generation Patent [NASA-CASE-GSC-11367]	c 10 N71-26374	Tungsten contacts on silicon substrates [NASA-CASE-GSC-10695-1]	c 09 N72-25259	Long range laser traversing system [NASA-CASE-GSC-11262-1]	c 36 N74-21091
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent [NASA-CASE-XGS-04224]	c 10 N71-26418	Bacterial contamination monitor [NASA-CASE-GSC-10879-1]	c 14 N72-25413	Method and apparatus for optically monitoring the angular position of a rotating mirror [NASA-CASE-GSC-11353-1]	c 74 N74-21304
Turn on transient limiter Patent [NASA-CASE-GSC-10413]	c 10 N71-26531	Honeycomb panels formed of minimal surface periodic tubule layers [NASA-CASE-ERC-10364]	c 18 N72-25540	Image tube [NASA-CASE-GSC-11602-1]	c 33 N74-21850
Voltage regulator with plural parallel power source sections Patent [NASA-CASE-GSC-10891-1]	c 10 N71-26626	Honeycomb core structures of minimal surface tubule sections [NASA-CASE-ERC-10363]	c 18 N72-25541	Apparatus for controlling the temperature of balloon-borne equipment [NASA-CASE-GSC-11620-1]	c 34 N74-23039
Method for generating ultra-precise angles Patent [NASA-CASE-XGS-04173]	c 19 N71-26674	Gunn-type solid state devices [NASA-CASE-XER-07895]	c 26 N72-25679	Coaxial anode wire for gas radiation counters [NASA-CASE-GSC-11492-1]	c 35 N74-26949
Resettable monostable pulse generator Patent [NASA-CASE-GSC-11139]	c 09 N71-27016	Use of unilluminated solar cells as shunt diodes for a solar array [NASA-CASE-GSC-10344-1]	c 03 N72-27053	Arterial pulse wave pressure transducer [NASA-CASE-GSC-11531-1]	c 52 N74-27566
Micro-pound extended range thrust stand Patent [NASA-CASE-GSC-10710-1]	c 28 N71-27094	Active tuned circuit [NASA-CASE-GSC-11340-1]	c 10 N72-33230	Heat flow calorimeter [NASA-CASE-GSC-11434-1]	c 34 N74-27859
Synchronous dc direct drive system Patent [NASA-CASE-GSC-10065-1]	c 10 N71-27136	Electric motive machine including magnetic bearing [NASA-CASE-XGS-07805]	c 15 N72-33476	Air conditioning system and component therefore distributing air flow from opposite directions [NASA-CASE-GSC-11445-1]	c 31 N74-27902
Antenna array at focal plane of reflector with coupling network for beam switching Patent [NASA-CASE-GSC-10220-1]	c 07 N71-27233	Cosmic dust or other similar outer space particles impact location detector [NASA-CASE-GSC-11291-1]	c 25 N72-33696	Passive dual spin misalignment compensators [NASA-CASE-GSC-11479-1]	c 35 N74-28097
Gravity gradient attitude control system Patent [NASA-CASE-GSC-10555-1]	c 21 N71-27324	Method and apparatus for determining the contents of contained gas samples [NASA-CASE-GSC-10903-1]	c 14 N73-12444	Star scanner [NASA-CASE-GSC-11569-1]	c 89 N74-30886
Segmented superconducting magnet for a broadband traveling wave maser Patent [NASA-CASE-XGS-10518]	c 16 N71-28554	System for stabilizing torque between a balloon and gondola [NASA-CASE-GSC-11077-1]	c 02 N73-13008	Millimeter wave pumped parametric amplifier [NASA-CASE-GSC-11617-1]	c 33 N74-32660
		Diffuse reflective coating [NASA-CASE-GSC-11214-1]	c 06 N73-13128	Structural heat pipe [NASA-CASE-GSC-11619-1]	c 34 N75-12222
		Data processor with conditionally supplied clock signals [NASA-CASE-GSC-10975-1]	c 08 N73-13187		

Remote platform power conserving system				Transformer regulated self-stabilizing chopper				Method and apparatus for holding two separate metal pieces together for welding			
[NASA-CASE-GSC-11182-1]	c 15	N75-13007		[NASA-CASE-XGS-09186]	c 33	N78-17295		[NASA-CASE-GSC-12318-1]	c 37	N80-23655	
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide				Shunt regulation electric power system				Method of forming a sharp edge on an optical device			
[NASA-CASE-GSC-11577-1]	c 37	N75-15992		[NASA-CASE-GSC-10135]	c 33	N78-17296		[NASA-CASE-GSC-12348-1]	c 74	N80-24149	
Magnetic bearing				Binary to binary coded decimal converter				Scannable beam forming interferometer antenna array system			
[NASA-CASE-GSC-11079-1]	c 37	N75-18574		[NASA-CASE-GSC-12044-1]	c 60	N78-17691		[NASA-CASE-GSC-12365-1]	c 32	N80-28578	
Dish antenna having switchable beamwidth				Magnifying image intensifier				Apparatus for supplying conditioned air at a substantially constant temperature and humidity			
[NASA-CASE-GSC-11760-1]	c 33	N75-19516		[NASA-CASE-GSC-12010-1]	c 74	N78-18905		[NASA-CASE-GSC-12191-1]	c 31	N80-32583	
X-Y alphanumeric character generator for oscilloscopes				Energy storage apparatus				Belt for transmitting power from a cogged driving member to a cogged driven member			
[NASA-CASE-GSC-11582-1]	c 33	N75-19517		[NASA-CASE-GSC-12030-1]	c 44	N78-24608		[NASA-CASE-GSC-12289-1]	c 37	N80-32717	
Controllable high voltage source having fast settling time				Process for utilizing low-cost graphite substrates for polycrystalline solar cells				System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station			
[NASA-CASE-GSC-11844-1]	c 33	N75-19522		[NASA-CASE-GSC-12022-2]	c 44	N78-24609		[NASA-CASE-GSC-12411-1]	c 33	N81-14221	
Dually mode locked Nd:YAG laser				Actuator mechanism				Device for coupling a first vehicle to a second vehicle			
[NASA-CASE-GSC-11746-1]	c 36	N75-19654		[NASA-CASE-GSC-11883-2]	c 37	N78-31426		[NASA-CASE-GSC-12429-1]	c 37	N81-14320	
Self-regulating proportionally controlled heating apparatus and technique				Quadrature demodulation				Safety shield for vacuum/pressure chamber viewing port			
[NASA-CASE-GSC-11752-1]	c 77	N75-20140		[NASA-CASE-GSC-12137-1]	c 33	N78-32338		[NASA-CASE-GSC-12513-1]	c 31	N81-19343	
Low speed phaselock speed control system				Logarithmic circuit with wide dynamic range				Buck/boost regulator			
[NASA-CASE-GSC-11127-1]	c 09	N75-24758		[NASA-CASE-GSC-12145-1]	c 33	N78-32339		[NASA-CASE-GSC-12360-1]	c 33	N81-19392	
Modulator for tone and binary signals				Wide power range microwave feedback controller				Geodetic distance measuring apparatus			
[NASA-CASE-GSC-11743-1]	c 32	N75-24981		[NASA-CASE-GSC-12146-1]	c 33	N78-32340		[NASA-CASE-GSC-12609-1]	c 36	N81-22344	
Digital phase-locked loop				Method and apparatus for splitting a beam of energy				Fluorescent radiation converter			
[NASA-CASE-GSC-11623-1]	c 33	N75-25040		[NASA-CASE-GSC-12083-1]	c 73	N78-32848		[NASA-CASE-GSC-12528-1]	c 74	N81-24900	
Radiation hardening of MOS devices by boron				Time domain phase measuring apparatus				Portable appliance security apparatus			
[NASA-CASE-GSC-11425-2]	c 76	N75-25730		[NASA-CASE-GSC-12228-1]	c 33	N79-10338		[NASA-CASE-GSC-12399-1]	c 33	N81-25299	
Correlation type phase detector				System for and method of freezing biological tissue				Locking mechanism for orthopedic braces			
[NASA-CASE-GSC-11744-1]	c 33	N75-26243		[NASA-CASE-GSC-12173-1]	c 51	N79-10694		[NASA-CASE-GSC-12082-2]	c 52	N81-25661	
Process for making sheets with parallel pores of uniform size				Systems and methods for determining radio frequency interference				Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation			
[NASA-CASE-GSC-10984-1]	c 37	N75-26371		[NASA-CASE-GSC-12150-1]	c 32	N79-11265		[NASA-CASE-GSC-12515-1]	c 33	N81-26360	
Impact position detector for outer space particles				Complementary DMOS-VMOS integrated circuit structure				Apparatus and method for determining the position of a radiant energy source			
[NASA-CASE-GSC-11829-1]	c 35	N75-27331		[NASA-CASE-GSC-12190-1]	c 33	N79-12321		[NASA-CASE-GSC-12147-1]	c 32	N81-27341	
Single frequency, two feed dish antenna having switchable beamwidth				Electrically conductive thermal control coatings				Interleaving device			
[NASA-CASE-GSC-11968-1]	c 32	N76-15329		[NASA-CASE-GSC-12207-1]	c 24	N79-14156		[NASA-CASE-GSC-12111-2]	c 33	N81-29342	
Micrometeoroid velocity and trajectory analyzer				External bulb variable volume maser				Time delay and integration detectors using charge transfer devices			
[NASA-CASE-GSC-11892-1]	c 35	N76-15433		[NASA-CASE-GSC-12334-1]	c 36	N79-14362		[NASA-CASE-GSC-12324-1]	c 33	N81-33403	
Atomic standard with variable storage volume				Determination of antimicrobial susceptibilities on infected urines without isolation				Scanner			
[NASA-CASE-GSC-11895-1]	c 35	N76-15436		[NASA-CASE-GSC-12046-1]	c 52	N79-14750		[NASA-CASE-GSC-12032-2]	c 43	N82-13465	
High voltage distributor				Partial polarizer filter				Microwave switching power divider			
[NASA-CASE-GSC-11849-1]	c 33	N76-16332		[NASA-CASE-GSC-12225-1]	c 74	N79-14891		[NASA-CASE-GSC-12420-1]	c 33	N82-16340	
Moving particle composition analyzer				Thermal compensator for closed-cycle helium refrigerator				Laser measuring system for incremental assemblies			
[NASA-CASE-GSC-11889-1]	c 35	N76-16393		[NASA-CASE-GSC-12168-1]	c 31	N79-17029		[NASA-CASE-GSC-12321-1]	c 36	N82-16396	
Variable beamwidth antenna				Solar cell module assembly jig				Memory-based frame synchronizer			
[NASA-CASE-GSC-11862-1]	c 32	N76-18295		[NASA-CASE-GSC-00829-1]	c 44	N79-19447		[NASA-CASE-GSC-12430-1]	c 60	N82-16747	
Automatic character skew and spacing checking network				System for synchronizing synthesizers of communication systems				Low thrust monopropellant engine			
[NASA-CASE-GSC-11925-1]	c 33	N76-18353		[NASA-CASE-GSC-12148-1]	c 32	N79-20296		[NASA-CASE-GSC-12194-2]	c 20	N82-18314	
Axially and radially controllable magnetic bearing				Rotary electric device				Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer			
[NASA-CASE-GSC-11551-1]	c 37	N76-18459		[NASA-CASE-GSC-12138-1]	c 33	N79-20314		[NASA-CASE-GSC-12081-2]	c 52	N82-22875	
Apparatus for simulating optical transmission links				Low intensity X-ray and gamma-ray imaging device				Automatic thermal switch			
[NASA-CASE-GSC-11877-1]	c 74	N76-18913		[NASA-CASE-GSC-12263-1]	c 74	N79-20857		[NASA-CASE-GSC-12415-1]	c 33	N82-24419	
Telemetry synchronizer				Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide				Linear magnetic motor/generator			
[NASA-CASE-GSC-11868-1]	c 17	N76-22245		[NASA-CASE-GSC-11577-3]	c 24	N79-25143		[NASA-CASE-GSC-12518-1]	c 33	N82-24421	
Locking mechanism for orthopedic braces				Microwave dichroic plate				Non-contacting power transfer device			
[NASA-CASE-GSC-12082-1]	c 54	N76-22914		[NASA-CASE-GSC-12171-1]	c 33	N79-28416		[NASA-CASE-GSC-12595-1]	c 33	N82-24422	
Ultraviolet light reflective coating				Shock isolator for operating a diode laser on a closed-cycle refrigerator				Inorganic spark chamber frame and method of making the same			
[NASA-CASE-GSC-11786-1]	c 24	N76-24363		[NASA-CASE-GSC-12297-1]	c 37	N79-28549		[NASA-CASE-GSC-12354-1]	c 35	N82-24471	
Switchable beamwidth monopulse method and system				Toggle mechanism for pinching metal tubes				Process of treating cellulosic membrane and alkaline with membrane separator			
[NASA-CASE-GSC-11924-1]	c 33	N76-27472		[NASA-CASE-GSC-12274-1]	c 37	N79-28550		[NASA-CASE-GSC-10019-1]	c 44	N82-24641	
Fabrication of polycrystalline solar cells on low-cost substrates				Alkali-metal silicate binders and methods of manufacture				Separator for alkaline batteries and method of making same			
[NASA-CASE-GSC-12022-1]	c 44	N76-28635		[NASA-CASE-GSC-12303-1]	c 24	N79-31347		[NASA-CASE-GSC-10350-1]	c 44	N82-24642	
Method of detecting and counting bacteria				Thermal control canister				Separator for alkaline electric cells and method of making			
[NASA-CASE-GSC-11917-2]	c 51	N76-29891		[NASA-CASE-GSC-12253-1]	c 34	N79-31523		[NASA-CASE-GSC-10017-1]	c 44	N82-24643	
Polarization compensator for optical communications				Wedge immersed thermistor bolometers				Separator for alkaline electric batteries and method of making			
[NASA-CASE-GSC-11782-1]	c 74	N76-30053		[NASA-CASE-GSC-10145-1]	c 35	N79-33449		[NASA-CASE-GSC-10018-1]	c 44	N82-24644	
Static coefficient test method and apparatus				Bakeable McLeod gauge				Alkaline electrochemical cells and method of making			
[NASA-CASE-GSC-11893-1]	c 35	N76-31489		[NASA-CASE-XGS-01293-1]	c 35	N79-33450		[NASA-CASE-GSC-10349-1]	c 44	N82-24645	
Digital plus analog output encoder				Fluid pressure balanced seal				Aqueous alkali metal hydroxide insoluble cellulose ether membrane			
[NASA-CASE-GSC-12115-1]	c 62	N76-31946		[NASA-CASE-XGS-01286-1]	c 37	N79-33469		[NASA-CASE-XGS-05584-1]	c 25	N82-29370	
Method and apparatus for neutralizing potentials induced on spacecraft surfaces				Antenna deployment mechanism for use with a spacecraft				Implantable electrical device			
[NASA-CASE-GSC-11963-1]	c 33	N77-10429		[NASA-CASE-GSC-12331-1]	c 18	N80-14183		[NASA-CASE-GSC-12560-1]	c 52	N82-29863	
Inrush current limiter				Laser apparatus				Low intensity X-ray and gamma-ray spectrometer			
[NASA-CASE-GSC-11789-1]	c 33	N77-14333		[NASA-CASE-GSC-12237-1]	c 36	N80-14384		[NASA-CASE-GSC-12587-1]	c 35	N82-32659	
Linear phase demodulator including a phase locked loop with auxiliary feedback loop				Coupling device for moving vehicles				Crystal cleaving machine			
[NASA-CASE-GSC-12018-1]	c 33	N77-14334		[NASA-CASE-GSC-12322-1]	c 37	N80-14398		[NASA-CASE-GSC-12584-1]	c 37	N82-32730	
Reel safety brake				Voltage feed through apparatus having reduced partial discharge				Multiprism collimator			
[NASA-CASE-GSC-11960-1]	c 37	N77-14479		[NASA-CASE-GSC-12347-1]	c 33	N80-18286		[NASA-CASE-GSC-12608-1]	c 74	N83-10900	
Two-dimensional radiant energy array computers and computing devices				Distributed-switch Dicke radiometers				Massively parallel processor computer			
[NASA-CASE-GSC-11839-1]	c 60	N77-14751		[NASA-CASE-GSC-12219-1]	c 35	N80-18359		[NASA-CASE-GSC-12223-1]	c 60	N83-25378	
Magnetic bearing system				Method and apparatus for slicing crystals				Variable speed drive			
[NASA-CASE-GSC-11978-1]	c 37	N77-17464		[NASA-CASE-GSC-12291-1]	c 76	N80-18951		[NASA-CASE-GSC-12643-1]	c 37	N83-26078	
Method and apparatus for measuring web material wound on a reel				Diffraction grating configuration for X-ray and ultraviolet focusing							
[NASA-CASE-GSC-11902-1]	c 38	N77-17495		[NASA-CASE-GSC-12357-1]	c 74	N80-21140					
Cyclical bi-directional rotary actuator				Active nutation controller							
[NASA-CASE-GSC-11883-1]	c 37	N77-19458		[NASA-CASE-GSC-12273-1]	c 35	N80-21719					
The 2 deg/90 deg laboratory scattering photometer											
[NASA-CASE-GSC-12088-1]	c 74	N78-13874									

Method for milling and drilling glass [NASA-CASE-GSC-12636-1]	c 31	N83-27058	GaAs Schottky barrier photo-responsive device and method of fabrication [NASA-CASE-GSC-12816-1]	c 76	N86-20150	J-hook latching device [NASA-CASE-GSC-13200-1]	c 37	N92-21500
Rapid, quantitative determination of bacteria in water [NASA-CASE-GSC-12158-1]	c 51	N83-27569	Automatic oscillator frequency control system [NASA-CASE-GSC-12804-1]	c 33	N86-20668	Roller locking brake [NASA-CASE-GSC-13376-1]	c 37	N92-21728
Method of damping nutation motion with minimum spin axis attitude disturbance [NASA-CASE-GSC-12551-1]	c 18	N83-28064	Rotatable electric cable connecting system [NASA-CASE-GSC-12899-1]	c 33	N86-20669	High reliability robot friendly ORU interface [NASA-CASE-GSC-13360-1]	c 37	N92-23377
Automatic thermal switch [NASA-CASE-GSC-12553-1]	c 34	N83-28356	Optical multiple sample vacuum integrating sphere [NASA-CASE-GSC-12849-1]	c 74	N86-26190	Retractable tool bit having latch type catch mechanism [NASA-CASE-GSC-13359-1]	c 37	N92-23378
Cooling by conversion of para to ortho-hydrogen [NASA-CASE-GSC-12770-1]	c 25	N83-29324	Wide-angle flat field telescope [NASA-CASE-GSC-12825-1]	c 74	N86-28732	Coaxial turnstile junction [NASA-CASE-GSC-13422-1]	c 33	N92-23462
Geodetic distance measuring apparatus [NASA-CASE-GSC-12609-2]	c 36	N83-29681	Multispectral linear array multiband selection device [NASA-CASE-GSC-12911-1]	c 74	N86-29650	Microprocessor control of multiple peak power tracking DC/DC converters for use with solar cell arrays [NASA-CASE-GSC-13450-1]	c 44	N92-23463
Linear magnetic bearing [NASA-CASE-GSC-12517-1]	c 37	N83-32067	Optical distance measuring instrument [NASA-CASE-GSC-12761-1]	c 74	N86-32266	Climbing robot [NASA-CASE-GSC-13442-1]	c 37	N92-23547
Interferometric angle monitor [NASA-CASE-GSC-12614-1]	c 74	N83-32577	Method of coating a substrate with a rapidly solidified metal [NASA-CASE-GSC-12880-1]	c 26	N86-32550	Helix translation device [NASA-CASE-GSC-13141-1]	c 37	N92-23548
Method of neutralizing the corrosive surface of amine-cured epoxy resins [NASA-CASE-GSC-12686-1]	c 27	N83-34039	Temperature sensitive oscillator [NASA-CASE-GSC-12958-1]	c 33	N86-32624	Method and apparatus for determination of material residual stress [NASA-CASE-GSC-13451-1]	c 39	N92-23549
Active lamp pulse driver circuit [NASA-CASE-GSC-12566-1]	c 33	N83-34189	Method of fabricating an imaging X-ray spectrometer [NASA-CASE-GSC-12956-1]	c 35	N87-14671	Retractable tool bit having slider type catch mechanism [NASA-CASE-GSC-13358-1]	c 37	N92-24058
High stability amplifier [NASA-CASE-GSC-12646-1]	c 33	N83-34191	Radial and torsionally controlled magnetic bearing [NASA-CASE-GSC-12957-1]	c 37	N87-17038	Double-V block fingers with cruciform recess [NASA-CASE-GSC-13356-1]	c 37	N92-24243
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Heat pipe thermal switch [NASA-CASE-GSC-12812-1]	c 34	N83-35307	Optical scanner [NASA-CASE-GSC-12897-1]	c 74	N87-21679	Device for applying constant pressure to a surface [NASA-CASE-GSC-13230-1]	c 37	N92-28754
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Unidirectional flexural pivot [NASA-CASE-GSC-12622-1]	c 37	N84-12492	Cellular thermosetting fluoropolymers and process for making them [NASA-CASE-GSC-13008-1]	c 27	N88-23894	Laser optical disk position encoder with active heads [NASA-CASE-GSC-13175-1]	c 74	N92-29133
Tuned analog network [NASA-CASE-GSC-12650-1]	c 33	N84-14421	Polymeric heat pipe wick [NASA-CASE-GSC-13019-1]	c 34	N88-29133	Rolling friction robot fingers [NASA-CASE-GSC-13261-1]	c 37	N92-29138
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Whole body cleaning agent containing N-acetylaureate [NASA-CASE-MSC-21589-1]	c 54	N92-29137	Motion picture camera for optical pyrometry Patent [NASA-CASE-XLA-00062]	c 14	N70-33254	Sandwich panel construction Patent [NASA-CASE-XLA-00349]	c 33	N70-37979	Reflector space satellite Patent [NASA-CASE-XLA-00138]	c 31	N70-37981
Quick application/release nut with engagement indicator [NASA-CASE-MSC-21799-1]	c 37	N92-29150	Variable sweep wing configuration Patent [NASA-CASE-XLA-00230]	c 02	N70-33255	Reflector space satellite Patent [NASA-CASE-XLA-00138]	c 31	N70-37981	Variable-geometry winged reentry vehicle Patent [NASA-CASE-XLA-00241]	c 31	N70-37986
Fastening apparatus having shape memory alloy actuator [NASA-CASE-MSC-21935-1]	c 37	N92-29762	Variable sweep wing aircraft Patent [NASA-CASE-XLA-00221]	c 02	N70-33266	Variable-geometry winged reentry vehicle Patent [NASA-CASE-XLA-00241]	c 31	N70-37986	Vehicle parachute and equipment jettison system Patent [NASA-CASE-XLA-00195]	c 02	N70-38009
Accelerometer method and apparatus for integral display and control functions [NASA-CASE-MSC-21961-1]	c 35	N92-29952	Plasma accelerator Patent [NASA-CASE-XLA-00675]	c 25	N70-33267	Vehicle parachute and equipment jettison system Patent [NASA-CASE-XLA-00195]	c 02	N70-38009	Landing arrangement for aerospace vehicle Patent [NASA-CASE-XLA-00805]	c 31	N70-38010
Fingered bola body, bola with same, and methods of use [NASA-CASE-MSC-21967-1]	c 37	N92-30026	Survival couch Patent [NASA-CASE-XLA-00118]	c 05	N70-33285	Landing arrangement for aerospace vehicle Patent [NASA-CASE-XLA-00805]	c 31	N70-38010	Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent [NASA-CASE-XLA-00414]	c 07	N70-38200
			Landing arrangement for aerial vehicles Patent [NASA-CASE-XLA-00142]	c 02	N70-33286	Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent [NASA-CASE-XLA-00414]	c 07	N70-38200	Despin weight release Patent [NASA-CASE-XLA-00679]	c 15	N70-38601
			Wind tunnel airstream oscillating apparatus Patent [NASA-CASE-XLA-00112]	c 11	N70-33287	Despin weight release Patent [NASA-CASE-XLA-00679]	c 15	N70-38601	Manned space station Patent [NASA-CASE-XLA-00258]	c 31	N70-38676
			Hydrofoil Patent [NASA-CASE-XLA-00229]	c 12	N70-33305	Manned space station Patent [NASA-CASE-XLA-00258]	c 31	N70-38676			
			High intensity heat and light unit Patent [NASA-CASE-XLA-00141]	c 09	N70-33312						

Missile stage separation indicator and stage initiator Patent			Analog to digital converter Patent			Ionization vacuum gauge with all but the end of the ion collector shielded Patent		
[NASA-CASE-XLA-00791]	c 03	N70-39930	[NASA-CASE-XLA-00670]	c 08	N71-12501	[NASA-CASE-XLA-07424]	c 14	N71-18482
Apparatus for producing high purity silicon carbide crystals Patent			Integrated time shared instrumentation display Patent			Safe-arm initiator Patent		
[NASA-CASE-XLA-02057]	c 26	N70-40015	[NASA-CASE-XLA-01952]	c 08	N71-12507	[NASA-CASE-LAR-10372]	c 09	N71-18599
Miniature vibration isolator Patent			SCR blocking pulse gate amplifier Patent			Controlled glass bead peening Patent		
[NASA-CASE-XLA-01019]	c 15	N70-40156	[NASA-CASE-XLA-07497]	c 09	N71-12514	[NASA-CASE-XLA-07390]	c 15	N71-18616
Aircraft instrument Patent			Minimum induced drag airfoil body Patent			Exclusive-Or digital logic module Patent		
[NASA-CASE-XLA-00487]	c 14	N70-40157	[NASA-CASE-XLA-00755]	c 01	N71-13410	[NASA-CASE-XLA-07732]	c 08	N71-18751
Radiation direction detector including means for compensating for photocell aging Patent			Minimum induced drag airfoil body Patent			Slosh alleviator Patent		
[NASA-CASE-XLA-00183]	c 14	N70-40239	[NASA-CASE-XLA-05828]	c 01	N71-13411	[NASA-CASE-XLA-05749]	c 15	N71-19569
Passive communication satellite Patent			Mechanical stability augmentation system Patent			G conditioning suit Patent		
[NASA-CASE-XLA-00210]	c 30	N70-40309	[NASA-CASE-XLA-06339]	c 02	N71-13422	[NASA-CASE-XLA-02898]	c 05	N71-20268
Electrostatic plasma modulator for space vehicle re-entry communication Patent			Automatic balancing device Patent			Dosimeter for high levels of absorbed radiation Patent		
[NASA-CASE-XLA-01400]	c 07	N70-41331	[NASA-CASE-LAR-10774]	c 10	N71-13545	[NASA-CASE-XLA-03645]	c 14	N71-20430
Micrometeoroid velocity measuring device Patent			Quick release connector Patent			Flow field simulation Patent		
[NASA-CASE-XLA-00495]	c 14	N70-41332	[NASA-CASE-XLA-01141]	c 15	N71-13789	[NASA-CASE-LAR-11138]	c 12	N71-20436
Method of obtaining permanent record of surface flow phenomena Patent			Spacecraft experiment pointing and attitude control system Patent			Variable pulse width multiplier Patent		
[NASA-CASE-XLA-01353]	c 14	N70-41366	[NASA-CASE-XLA-05464]	c 21	N71-14132	[NASA-CASE-XLA-02850]	c 09	N71-20447
Means for communicating through a layer of ionized gases Patent			Pressurized cell micrometeoroid detector Patent			Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent		
[NASA-CASE-XLA-01127]	c 07	N70-41372	[NASA-CASE-XLA-00936]	c 14	N71-14996	[NASA-CASE-XLA-06232]	c 25	N71-20563
Quick release separation mechanism Patent			Crossed-field MHD plasma generator/accelerator Patent			Null device for hand controller Patent		
[NASA-CASE-XLA-01441]	c 15	N70-41679	[NASA-CASE-XLA-03374]	c 25	N71-15562	[NASA-CASE-XLA-01808]	c 15	N71-20740
Flexible wing deployment device Patent			Adjustable attitude guide device Patent			Event recorder Patent		
[NASA-CASE-XLA-01220]	c 02	N70-41863	[NASA-CASE-XLA-07911]	c 15	N71-15571	[NASA-CASE-XLA-01832]	c 14	N71-21006
Self-sealing, unbonded, rocket motor nozzle closure Patent			Control system for rocket vehicles Patent			Inflatable support structure Patent		
[NASA-CASE-XLA-02651]	c 28	N70-41967	[NASA-CASE-XLA-01163]	c 21	N71-15582	[NASA-CASE-XLA-01731]	c 32	N71-21045
Fatigue testing device Patent			Excessive temperature warning system Patent			Fast opening diaphragm Patent		
[NASA-CASE-XLA-02131]	c 32	N70-42003	[NASA-CASE-XLA-01926]	c 14	N71-15620	[NASA-CASE-XLA-03660]	c 15	N71-21060
Techniques for insulating cryogenic fuel containers Patent			Alleviation of divergence during rocket launch Patent			Ellipsograph for pantograph Patent		
[NASA-CASE-XLA-01967]	c 31	N70-42015	[NASA-CASE-XLA-00256]	c 31	N71-15663	[NASA-CASE-XLA-03102]	c 14	N71-21079
Double hinged flap Patent			Space capsule Patent			Random function tracer Patent		
[NASA-CASE-XLA-01290]	c 02	N70-42016	[NASA-CASE-XLA-01332]	c 31	N71-15664	[NASA-CASE-XLA-01401]	c 15	N71-21179
Spacecraft separation system for spinning vehicles and/or payloads Patent			Variable geometry manned orbital vehicle Patent			Method and apparatus for bonding a plastics sleeve onto a metallic body Patent		
[NASA-CASE-XLA-02132]	c 31	N71-10582	[NASA-CASE-XLA-03691]	c 31	N71-15674	[NASA-CASE-XLA-01262]	c 15	N71-21404
Method for molding compounds Patent			Payload/burned-out motor case separation system Patent			Hypersonic test facility Patent		
[NASA-CASE-XLA-01091]	c 15	N71-10672	[NASA-CASE-XLA-05369]	c 31	N71-15687	[NASA-CASE-XLA-05378]	c 11	N71-21475
Automatic force measuring system Patent			Velocity package Patent			Multilegged support system Patent		
[NASA-CASE-XLA-02605]	c 14	N71-10773	[NASA-CASE-XLA-01339]	c 31	N71-15692	[NASA-CASE-XLA-01326]	c 11	N71-21481
Gas analyzer for bi-gaseous mixtures Patent			File card marker Patent			Nacelle afterbody for jet engines Patent		
[NASA-CASE-XLA-01131]	c 14	N71-10774	[NASA-CASE-XLA-02705]	c 08	N71-15908	[NASA-CASE-XLA-10450]	c 28	N71-21493
Multiple input radio receiver Patent			Hypersonic test facility Patent			Canister closing device Patent		
[NASA-CASE-XLA-00901]	c 07	N71-10775	[NASA-CASE-XLA-00378]	c 11	N71-15925	[NASA-CASE-XLA-01446]	c 15	N71-21528
Rotating space station simulator Patent			Test unit free-flight suspension system Patent			Ablation sensor Patent		
[NASA-CASE-XLA-03127]	c 11	N71-10776	[NASA-CASE-XLA-00939]	c 11	N71-15926	[NASA-CASE-XLA-01794]	c 33	N71-21586
Composite powerplant and shroud therefor Patent			Reduced gravity simulator Patent			Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent		
[NASA-CASE-XLA-01043]	c 28	N71-10780	[NASA-CASE-XLA-01787]	c 11	N71-16028	[NASA-CASE-XLA-03103]	c 25	N71-21693
All-directional fastener Patent			Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent			Attitude control and damping system for spacecraft Patent		
[NASA-CASE-XLA-01807]	c 15	N71-10799	[NASA-CASE-XLA-00284]	c 15	N71-16075	[NASA-CASE-XLA-02551]	c 21	N71-21708
Hot air balloon deceleration and recovery system Patent			Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent			Method of making inflatable honeycomb Patent		
[NASA-CASE-XLA-06824-2]	c 02	N71-11037	[NASA-CASE-XLA-00302]	c 15	N71-16077	[NASA-CASE-XLA-03492]	c 15	N71-22713
Control for flexible parawing Patent			Separator Patent			Lunar penetrometer Patent		
[NASA-CASE-XLA-06958]	c 02	N71-11038	[NASA-CASE-XLA-00415]	c 15	N71-16079	[NASA-CASE-XLA-00934]	c 14	N71-22765
Variable sweep aircraft Patent			Omnidirectional multiple impact landing system Patent			Thermal control wall panel Patent		
[NASA-CASE-XLA-03659]	c 02	N71-11041	[NASA-CASE-XLA-09881]	c 31	N71-16085	[NASA-CASE-XLA-01243]	c 33	N71-22792
Translating horizontal tail Patent			Flexible ring slosh damping baffle Patent			Attitude sensor for space vehicles Patent		
[NASA-CASE-XLA-08801-1]	c 02	N71-11043	[NASA-CASE-LAR-10317-1]	c 32	N71-16103	[NASA-CASE-XLA-00793]	c 21	N71-22880
Space suit pressure stabilizer Patent			Buoyant anti-slosh system Patent			Omnidirectional microwave spacecraft antenna Patent		
[NASA-CASE-XLA-05332]	c 05	N71-11194	[NASA-CASE-XLA-04605]	c 32	N71-16106	[NASA-CASE-XLA-03114]	c 09	N71-22888
Equipotential space suit Patent			Detector panels-micrometeoroid impact Patent			Thermal control panel Patent		
[NASA-CASE-LAR-10007-1]	c 05	N71-11195	[NASA-CASE-XLA-05906]	c 31	N71-16221	[NASA-CASE-XLA-07728]	c 33	N71-22890
Recovery of potable water from human wastes in below-G conditions Patent			Wind velocity probing device and method Patent			Spacecraft airlock Patent		
[NASA-CASE-XLA-03213]	c 05	N71-11207	[NASA-CASE-XLA-02081]	c 20	N71-16281	[NASA-CASE-XLA-02050]	c 31	N71-22968
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4,5-tetraamino-benzene Patent			Vibrating structure displacement measuring instrument Patent			Station keeping of a gravity gradient stabilized satellite Patent		
[NASA-CASE-XLA-03104]	c 06	N71-11235	[NASA-CASE-XLA-03135]	c 32	N71-16428	[NASA-CASE-XLA-03132]	c 31	N71-22969
Imidazopyrrolone/imide copolymers Patent			Viscous-pendulum-damper Patent			Semi-linear ball bearing Patent		
[NASA-CASE-XLA-08802]	c 06	N71-11238	[NASA-CASE-XLA-02079]	c 12	N71-16894	[NASA-CASE-XLA-02809]	c 15	N71-22982
Adaptive compression of communication signals Patent			Leak detector Patent			Heat sensing instrument Patent		
[NASA-CASE-XLA-03076]	c 07	N71-11266	[NASA-CASE-LAR-10323-1]	c 12	N71-17573	[NASA-CASE-XLA-01551]	c 14	N71-22989
Reentry communication by material addition Patent			Logic AND gate for fluid circuits Patent			Ablation sensor Patent		
[NASA-CASE-XLA-01552]	c 07	N71-11284	[NASA-CASE-XLA-07391]	c 12	N71-17579	[NASA-CASE-XLA-01791]	c 14	N71-22991
Cooperative Doppler radar system Patent			Contour surveying system Patent			Self-calibrating displacement transducer Patent		
[NASA-CASE-LAR-10403]	c 21	N71-11766	[NASA-CASE-XLA-08646]	c 14	N71-17586	[NASA-CASE-XLA-00781]	c 09	N71-22999
Supersonic aircraft Patent			Cable arrangement for rigid tethering Patent			Lateral displacement system for separated rocket stages Patent		
[NASA-CASE-XLA-04451]	c 02	N71-12243	[NASA-CASE-XLA-02332]	c 32	N71-17609	[NASA-CASE-XLA-04804]	c 31	N71-23008
Umbilical disconnect Patent			Thermal pump-compressor for space use Patent			Thermal control coating Patent		
[NASA-CASE-XLA-00711]	c 03	N71-12258	[NASA-CASE-XLA-00377]	c 33	N71-17610	[NASA-CASE-XLA-01995]	c 18	N71-23047
Remote controlled tubular disconnect Patent			Viscous pendulum damper Patent			Method of making an inflatable panel Patent		
[NASA-CASE-XLA-01396]	c 03	N71-12259	[NASA-CASE-LAR-10274-1]	c 14	N71-17626	[NASA-CASE-XLA-03497]	c 15	N71-23052
Backpack carrier Patent			Self supporting space vehicle Patent			Variable duration pulse integrator Patent		
[NASA-CASE-LAR-10056]	c 05	N71-12351	[NASA-CASE-XLA-00117]	c 31	N71-17680	[NASA-CASE-XLA-01219]	c 10	N71-23084
Optical communications system Patent			Technique for control of free-flight rocket vehicles Patent			Impact energy absorber Patent		
[NASA-CASE-XLA-01090]	c 07	N71-12389	[NASA-CASE-XLA-00937]	c 31	N71-17691	[NASA-CASE-XLA-01530]	c 14	N71-23092
			Hydraulic grip Patent			Micrometeoroid penetration measuring device Patent		
			[NASA-CASE-XLA-05100]	c 15	N71-17696	[NASA-CASE-XLA-00941]	c 14	N71-23240
			Heat protection apparatus Patent			Combined optical attitude and altitude indicating instrument Patent		
			[NASA-CASE-XLA-00892]	c 33	N71-17897	[NASA-CASE-XLA-01907]	c 14	N71-23268
			Thermopile vacuum gage tube simulator Patent					
			[NASA-CASE-XLA-02758]	c 14	N71-18481			

Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent				Two component bearing Patent				Logical function generator			
[NASA-CASE-XLA-01584]	c 14	N71-23269		[NASA-CASE-XLA-00013]	c 15	N71-29136		[NASA-CASE-XLA-05099]	c 09	N73-13209	
Variable width pulse integrator Patent				Digital pulse width selection circuit Patent				Ferry system			
[NASA-CASE-XLA-03356]	c 10	N71-23315		[NASA-CASE-XLA-07788]	c 09	N71-29139		[NASA-CASE-LAR-10574-1]	c 11	N73-13257	
Leading edge curvature based on convective heating Patent				Magnetically controlled plasma accelerator Patent				Flow velocity and directional instrument			
[NASA-CASE-XLA-01486]	c 01	N71-23497		[NASA-CASE-XLA-00327]	c 25	N71-29184		[NASA-CASE-LAR-10855-1]	c 14	N73-13415	
Measurement of time differences between luminous events Patent				Boring bar drive mechanism Patent				Vortex breech high pressure gas generator			
[NASA-CASE-XLA-01987]	c 23	N71-23976		[NASA-CASE-XLA-03661]	c 15	N71-33518		[NASA-CASE-LAR-10549-1]	c 31	N73-13898	
Method for measuring the characteristics of a gas Patent				Wind tunnel model damper Patent				Butt welder for fine gauge tungsten/rhenium thermocouple wire			
[NASA-CASE-XLA-03375]	c 16	N71-24074		[NASA-CASE-XLA-09480]	c 11	N71-33612		[NASA-CASE-LAR-10103-1]	c 15	N73-14468	
Laser grating interferometer Patent				Variable geometry rotor system				Method of detecting oxygen in a gas			
[NASA-CASE-XLA-04295]	c 16	N71-24170		[NASA-CASE-LAR-10557]	c 02	N72-11018		[NASA-CASE-LAR-10668-1]	c 06	N73-16106	
Automatic fatigue test temperature programmer Patent				Flared tube strainer				Combustion detector			
[NASA-CASE-XLA-02059]	c 33	N71-24276		[NASA-CASE-XLA-05056]	c 15	N72-11389		[NASA-CASE-LAR-10739-1]	c 14	N73-16484	
Ring wing tension vehicle Patent				Impact measuring technique				Laser communication system for controlling several functions at a location remote to the laser			
[NASA-CASE-XLA-04901]	c 31	N71-24315		[NASA-CASE-LAR-10913]	c 14	N72-16282		[NASA-CASE-LAR-10311-1]	c 16	N73-16536	
Process for applying black coating to metals Patent				Technique of duplicating fragile core				Apparatus for photographing meteors			
[NASA-CASE-XLA-06199]	c 15	N71-24875		[NASA-CASE-XLA-07829]	c 15	N72-16329		[NASA-CASE-LAR-10226-1]	c 14	N73-19419	
Velocity limiting safety system Patent				Tube fabricating process				Zero gravity liquid mixer			
[NASA-CASE-XLA-07473]	c 15	N71-24895		[NASA-CASE-LAR-10203-1]	c 15	N72-16330		[NASA-CASE-LAR-10195-1]	c 15	N73-19458	
Strain coupled servo control system Patent				Air bearing				Rate data encoder			
[NASA-CASE-XLA-08530]	c 32	N71-25360		[NASA-CASE-WLP-10002]	c 15	N72-17451		[NASA-CASE-LAR-10128-1]	c 08	N73-20217	
Method of temperature compensating semiconductor strain gages Patent				Extensometer frame				Function generator for synthesizing complex vibration mode patterns			
[NASA-CASE-XLA-04555-1]	c 14	N71-25892		[NASA-CASE-XLA-10322]	c 15	N72-17452		[NASA-CASE-LAR-10310-1]	c 10	N73-20253	
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent				[NASA-CASE-XLA-11154]	c 07	N72-21117		Infrared horizon locator			
[NASA-CASE-XLA-02810]	c 14	N71-25901		Recorder using selective noise filter				[NASA-CASE-LAR-10726-1]	c 14	N73-20475	
Method of plating copper on aluminum Patent				[NASA-CASE-ERC-10112]	c 07	N72-21119		Light intensity strain analysis			
[NASA-CASE-XLA-08966-1]	c 17	N71-25903		Stacked array of omnidirectional antennas				[NASA-CASE-LAR-10765-1]	c 32	N73-20740	
Laser calibrator Patent				[NASA-CASE-LAR-10545-1]	c 09	N72-21244		Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds			
[NASA-CASE-XLA-03410]	c 16	N71-25914		Electro-mechanical sine/cosine generator				[NASA-CASE-LAR-10578-1]	c 12	N73-25262	
Thermal protection ablation spray system Patent				[NASA-CASE-LAR-10503-1]	c 09	N72-21248		Cable restraint			
[NASA-CASE-XLA-04251]	c 18	N71-26100		Lathe tool bit and holder for machining fiberglass materials				[NASA-CASE-LAR-10129-1]	c 15	N73-25512	
Direct lift control system Patent				[NASA-CASE-XLA-10470]	c 15	N72-21489		Electronic strain-level counter			
[NASA-CASE-LAR-10249-1]	c 02	N71-26110		Pressure operated electrical switch responsive to a pressure decrease after a pressure increase				[NASA-CASE-LAR-10756-1]	c 32	N73-26910	
Light shield and infrared reflector for fatigue testing Patent				[NASA-CASE-LAR-10137-1]	c 09	N72-22204		Nondestructive spot test method for magnesium and magnesium alloys			
[NASA-CASE-XLA-01782]	c 14	N71-26136		Variable geometry wind tunnels				[NASA-CASE-LAR-10953-1]	c 17	N73-27446	
Dual resonant cavity absorption cell Patent				[NASA-CASE-XLA-07430]	c 11	N72-22246		Ablation article and method			
[NASA-CASE-LAR-10305]	c 14	N71-26137		Magnifying scratch gage force transducer				[NASA-CASE-LAR-10439-1]	c 33	N73-27796	
Resilience testing device Patent				[NASA-CASE-LAR-10496-1]	c 14	N72-22437		Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds			
[NASA-CASE-XLA-08254]	c 14	N71-26161		Star image motion compensator				[NASA-CASE-LAR-10612-1]	c 12	N73-28144	
Precipitation detector Patent				[NASA-CASE-LAR-10523-1]	c 14	N72-22444		Pressurized panel			
[NASA-CASE-XLA-02619]	c 10	N71-26334		Absolute focus lock for microscopes				[NASA-CASE-XLA-08916-2]	c 14	N73-28487	
Instrument for measuring the dynamic behavior of liquids Patent				[NASA-CASE-LAR-10184]	c 14	N72-22445		Apparatus for aiding a pilot in avoiding a midair collision between aircraft			
[NASA-CASE-XLA-05541]	c 12	N71-26387		Cryogenic feedthrough				[NASA-CASE-LAR-10717-1]	c 21	N73-30641	
Arbitrarily shaped model survey system Patent				[NASA-CASE-LAR-10031]	c 15	N72-22484		Exposure interlock for oscilloscope cameras			
[NASA-CASE-LAR-10098]	c 32	N71-26681		A technique for breaking ice in the path of a ship				[NASA-CASE-LAR-10319-1]	c 14	N73-32322	
Dielectric molding apparatus Patent				[NASA-CASE-LAR-10815-1]	c 16	N72-22520		Meteoroid detector			
[NASA-CASE-LAR-10121-1]	c 15	N71-26721		One hand backpack harness				[NASA-CASE-LAR-10483-1]	c 14	N73-32327	
Method of making a solid propellant rocket motor Patent				[NASA-CASE-LAR-10102-1]	c 05	N72-23085		Lightweight, variable solidity knitted parachute fabric			
[NASA-CASE-XLA-04126]	c 28	N71-26779		Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT				[NASA-CASE-LAR-10776-1]	c 02	N74-10034	
Dynamic vibration absorber Patent				[NASA-CASE-LAR-10320-1]	c 09	N72-23172		Technique for extending the frequency range of digital dividers			
[NASA-CASE-LAR-10083-1]	c 15	N71-27006		Ornidirectional slot antenna for mounting on cylindrical space vehicle				[NASA-CASE-LAR-10730-1]	c 33	N74-10223	
Rate augmented digital to analog converter Patent				[NASA-CASE-LAR-10163-1]	c 09	N72-25247		Fluid pressure amplifier and system			
[NASA-CASE-XLA-07828]	c 08	N71-27057		Hall effect transducer				[NASA-CASE-LAR-10868-1]	c 33	N74-11050	
High speed flight vehicle control Patent				[NASA-CASE-LAR-10620-1]	c 09	N72-25255		Method of making pressure tight seal for super alloy			
[NASA-CASE-XLA-08967]	c 02	N71-27088		Radio frequency filter device				[NASA-CASE-LAR-10170-1]	c 37	N74-11301	
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Active vibration isolator for flexible bodies Patent				[NASA-CASE-LAR-10253-1]	c 09	N72-25258		Molding process for imidazopyrrolone polymers			
[NASA-CASE-LAR-10106-1]	c 15	N71-27169		Variable angle tube holder				[NASA-CASE-LAR-10547-1]	c 31	N74-13177	
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 [NASA-CASE-LAR-14682-1] c 34 N92-30387
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 [NASA-CASE-LAR-14789-1] c 37 N92-30388
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 Flexible heating head for induction heating apparatus and method
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 [NASA-CASE-LAR-13780-1] c 18 N92-33013

Polyimide molding powder, coating, adhesive, and matrix resin
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 Methyl substituted polyimides containing carbonyl and ether connecting groups
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 High temperature fiber optic microphone having a pressure-sensing reflective membrane under tensile stress
 [NASA-CASE-LAR-14402-1-CU] c 74 N92-33017
 Flush mounting of thin film sensors
 [NASA-CASE-LAR-14446-1] c 31 N92-33020
 Vacuum-isolation vessel and method for measurement of thermal noise in microphones
 [NASA-CASE-LAR-14567-1-CU] c 33 N92-33021
 Noncircular rolling joints for vibrational reduction in slewing maneuvers
 [NASA-CASE-LAR-14515-1-CU] c 37 N92-33031
 Acoustophoresis method and apparatus
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 Vaporizing particle velocimeter
 [NASA-CASE-LAR-14685-1] c 02 N92-34172
 Linear mass actuator
 [NASA-CASE-LAR-14352-1] c 37 N92-34173
 Method of recertifying a loaded bearing member
 [NASA-CASE-LAR-14168-1] c 39 N92-34174
 Counter-balanced, multiple cable construction crane
 [NASA-CASE-LAR-14565-1-CU] c 37 N92-34212
 Pilot-pressure probe for measuring pressure in a hypersonic wind tunnel
 [NASA-CASE-LAR-14232-1] c 09 N92-34213
 Low pressure process for continuous fiber reinforced polyamic acid resin matrix composite laminates
 [NASA-CASE-LAR-14954-1] c 24 N92-34214
National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH.
 Foil seal
 [NASA-CASE-XLE-05130] c 15 N69-21362
 Fluid jet amplifier
 [NASA-CASE-XLE-03512] c 12 N69-21466
 Electrode and insulator with shielded dielectric junction
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 Thin window, drifted silicon, charged particle detector
 [NASA-CASE-XLE-10529] c 14 N69-23191
 Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
 [NASA-CASE-XLE-00690] c 25 N69-39884
 Ion thruster cathode
 [NASA-CASE-XLE-07087] c 06 N69-39889
 Superconducting alternator
 [NASA-CASE-XLE-02824] c 03 N69-39890
 Triode thermionic energy converter
 [NASA-CASE-XLE-01015] c 03 N69-39898
 Slug flow magnetohydrodynamic generator
 [NASA-CASE-XLE-02083] c 03 N69-39983
 Reduced gravity liquid configuration simulator
 [NASA-CASE-XLE-02624] c 12 N69-39988
 Transpiration cooled turbine blade manufactured from wires Patent
 [NASA-CASE-XLE-00020] c 15 N70-33226
 Rocket propellant injector Patent
 [NASA-CASE-XLE-00103] c 28 N70-33241
 Modification and improvements to cooled blades Patent
 [NASA-CASE-XLE-00092] c 15 N70-33264
 Colloid propulsion method and apparatus Patent
 [NASA-CASE-XLE-00817] c 28 N70-33265
 High-vacuum condenser tank for ion rocket tests Patent
 [NASA-CASE-XLE-00168] c 11 N70-33278
 High temperature nickel-base alloy Patent
 [NASA-CASE-XLE-00151] c 17 N70-33283
 Annular rocket motor and nozzle configuration Patent
 [NASA-CASE-XLE-00078] c 28 N70-33284
 Reinforced metallic composites Patent
 [NASA-CASE-XLE-02428] c 17 N70-33288
 Process for applying a protective coating for salt bath brazing Patent
 [NASA-CASE-XLE-00046] c 15 N70-33311
 Wire grid forming apparatus Patent
 [NASA-CASE-XLE-00023] c 15 N70-33330
 Electro-thermal rocket Patent
 [NASA-CASE-XLE-00267] c 28 N70-33356
 External liquid-spray cooling of turbine blades Patent
 [NASA-CASE-XLE-00037] c 28 N70-33372
 Apparatus for igniting solid propellants Patent
 [NASA-CASE-XLE-00207] c 28 N70-33375
 Flexible seal for valves Patent
 [NASA-CASE-XLE-00101] c 15 N70-33376
 Apparatus for making a metal slurry product Patent
 [NASA-CASE-XLE-00010] c 15 N70-33382

Energy conversion apparatus Patent [NASA-CASE-XLE-00212]	c 03	N70-34134	Method for continuous variation of propellant flow and thrust in propulsive devices Patent [NASA-CASE-XLE-00177]	c 28	N70-40367	Hot wire liquid level detector for cryogenic fluids Patent [NASA-CASE-XLE-00454]	c 23	N71-17802
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent [NASA-CASE-XLE-00266]	c 14	N70-34156	Apparatus for increasing ion engine beam density Patent [NASA-CASE-XLE-00519]	c 28	N70-41576	Pulsed differential comparator circuit Patent [NASA-CASE-XLE-03804]	c 10	N71-19471
Electrothermal rockets having improved heat exchangers Patent [NASA-CASE-XLE-01783]	c 28	N70-34175	Foldable conduit Patent [NASA-CASE-XLE-00620]	c 32	N70-41579	Foil seal Patent [NASA-CASE-XLE-05130-2]	c 15	N71-19570
Venting vapor apparatus Patent [NASA-CASE-XLE-00288]	c 15	N70-34247	Liquid storage tank venting device for zero gravity environment Patent [NASA-CASE-XLE-01449]	c 15	N70-41646	Generator for a space power system Patent [NASA-CASE-XLE-04250]	c 09	N71-20446
Thrust vector control apparatus Patent [NASA-CASE-XLE-00208]	c 28	N70-34294	Method of making a regeneratively cooled combustion chamber Patent [NASA-CASE-XLE-00150]	c 28	N70-41818	Method of making electrical contact on silicon solar cell and resultant product Patent [NASA-CASE-XLE-04787]	c 03	N71-20492
High temperature heat source Patent [NASA-CASE-XLE-00490]	c 33	N70-34545	Instrument for the quantitative measurement of radiation at multiple wave lengths Patent [NASA-CASE-XLE-00011]	c 14	N70-41946	Small plasma probe Patent [NASA-CASE-XLE-02578]	c 25	N71-20747
Inlet deflector for jet engines Patent [NASA-CASE-XLE-00388]	c 28	N70-34788	Small rocket engine Patent [NASA-CASE-XLE-00685]	c 28	N70-41992	Combined electrolysis device and fuel cell and method of operation Patent [NASA-CASE-XLE-01645]	c 03	N71-20904
Radiant heater having formed filaments Patent [NASA-CASE-XLE-00387]	c 33	N70-34812	Apparatus for positioning and loading a test specimen Patent [NASA-CASE-XLE-01300]	c 15	N70-41993	Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent [NASA-CASE-XLE-00787]	c 14	N71-21090
Optical torque meter Patent [NASA-CASE-XLE-00503]	c 14	N70-34818	Liquid flow sight assembly Patent [NASA-CASE-XLE-02998]	c 14	N70-42074	Control of transverse instability in rocket combustors Patent [NASA-CASE-XLE-04603]	c 33	N71-21507
Electric propulsion engine test chamber Patent [NASA-CASE-XLE-00252]	c 11	N70-34844	Inductive liquid level detection system Patent [NASA-CASE-XLE-01609]	c 14	N71-10500	High voltage divider system Patent [NASA-CASE-XLE-02008]	c 09	N71-21583
Conical valve plug Patent [NASA-CASE-XLE-00715]	c 15	N70-34859	Method of forming thin window drifted silicon charged particle detector Patent [NASA-CASE-XLE-00808]	c 24	N71-10560	Plasma device feed system Patent [NASA-CASE-XLE-02902]	c 25	N71-21694
Channel-type shell construction for rocket engines and the like Patent [NASA-CASE-XLE-00144]	c 28	N70-34860	Electrostatic thruster with improved insulators Patent [NASA-CASE-XLE-01902]	c 28	N71-10574	Burning rate control of solid propellants Patent [NASA-CASE-XLE-03494]	c 27	N71-21819
Non-reusable kinetic energy absorber Patent [NASA-CASE-XLE-00810]	c 15	N70-34861	Thin-walled pressure vessel Patent [NASA-CASE-XLE-04677]	c 15	N71-10577	Protective device for machine and metalworking tools Patent [NASA-CASE-XLE-01092]	c 15	N71-22797
High temperature testing apparatus Patent [NASA-CASE-XLE-00335]	c 14	N70-35368	Method of making a silicon semiconductor device Patent [NASA-CASE-XLE-02792]	c 26	N71-10607	Cryogenic insulation system Patent [NASA-CASE-XLE-04222]	c 23	N71-22881
Ion thruster cathode Patent Application [NASA-CASE-XLE-00814-1]	c 28	N70-35422	Metallic film diffusion for boundary lubrication Patent [NASA-CASE-XLE-01765]	c 18	N71-10772	Method for producing fiber reinforced metallic composites Patent [NASA-CASE-XLE-03925]	c 18	N71-22894
Formed metal ribbon wrap Patent [NASA-CASE-XLE-00164]	c 15	N70-36411	Molecular beam velocity selector Patent [NASA-CASE-XLE-01533]	c 11	N71-10777	Thermal shock apparatus Patent [NASA-CASE-XLE-02024]	c 14	N71-22964
Multistage multiple-reentry turbine Patent [NASA-CASE-XLE-00170]	c 15	N70-36412	Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent [NASA-CASE-XLE-01246]	c 14	N71-10797	Arc electrode of graphite with ball tip Patent [NASA-CASE-XLE-04788]	c 09	N71-22987
Fluid coupling Patent [NASA-CASE-XLE-00397]	c 15	N70-36492	Capacitor and method of making same Patent [NASA-CASE-XLE-010364-1]	c 09	N71-13522	Gas purged dry box glove Patent [NASA-CASE-XLE-02531]	c 05	N71-23080
Injector-valve device Patent [NASA-CASE-XLE-00303]	c 15	N70-36535	Capillary radiator Patent [NASA-CASE-XLE-03307]	c 33	N71-14035	Automatic recording McLeod gauge Patent [NASA-CASE-XLE-03280]	c 14	N71-23093
Nickel-base alloy Patent [NASA-CASE-XLE-00283]	c 17	N70-36616	Electrostatic ion engine having a permanent magnetic circuit Patent [NASA-CASE-XLE-01124]	c 28	N71-14043	Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent [NASA-CASE-XLE-04501]	c 09	N71-23190
Apparatus having coaxial capacitor structure for measuring fluid density Patent [NASA-CASE-XLE-00143]	c 14	N70-36618	Split welding chamber Patent [NASA-CASE-XLE-011531]	c 15	N71-14932	High temperature ferromagnetic cobalt-base alloy Patent [NASA-CASE-XLE-03629]	c 17	N71-23248
Rocket thrust chamber Patent [NASA-CASE-XLE-00145]	c 28	N70-36806	Method and apparatus for making curved reflectors Patent [NASA-CASE-XLE-08917]	c 15	N71-15597	Induction furnace with perforated tungsten foil shielding Patent [NASA-CASE-XLE-04026]	c 14	N71-23267
Ion rocket Patent [NASA-CASE-XLE-00376]	c 28	N70-37245	Method of making a diffusion bonded refractory coating Patent [NASA-CASE-XLE-01604-2]	c 15	N71-15610	Gd or Sm doped silicon semiconductor composition Patent [NASA-CASE-XLE-01715]	c 26	N71-23292
Annular supersonic decelerator or drogue Patent [NASA-CASE-XLE-00222]	c 02	N70-37939	Black-body furnace Patent [NASA-CASE-XLE-01399]	c 33	N71-15625	Protection of serially connected solar cells against open circuits by the use of shunting diode Patent [NASA-CASE-XLE-04535]	c 03	N71-23354
Rocket engine Patent [NASA-CASE-XLE-00342]	c 28	N70-37980	Method of igniting solid propellants Patent [NASA-CASE-XLE-01988]	c 27	N71-15634	Superconducting alternator Patent [NASA-CASE-XLE-02823]	c 09	N71-23443
Variable sweep aircraft wing Patent [NASA-CASE-XLE-00350]	c 02	N70-38011	Fluid dispensing apparatus and method Patent [NASA-CASE-XLE-01182]	c 27	N71-15635	Silicon solar cell with cover glass bonded to cell by metal pattern Patent [NASA-CASE-XLE-08569]	c 03	N71-23449
Apparatus for transferring cryogenic liquids Patent [NASA-CASE-XLE-00345]	c 15	N70-38020	Automatically deploying nozzle exit cone extension Patent [NASA-CASE-XLE-01640]	c 31	N71-15637	Analytical test apparatus and method for determining oxide content of alkali metal Patent [NASA-CASE-XLE-01997]	c 06	N71-23527
Method of producing porous tungsten ionizers for ion rocket engines Patent [NASA-CASE-XLE-00455]	c 28	N70-38197	High temperature cobalt-base alloy Patent [NASA-CASE-XLE-00726]	c 17	N71-15644	Thermionic converter with current augmented by self induced magnetic field Patent [NASA-CASE-XLE-01903]	c 22	N71-23599
Method of making fiber reinforced metallic composites Patent [NASA-CASE-XLE-00231]	c 17	N70-38198	Method of making a rocket motor casing Patent [NASA-CASE-XLE-00409]	c 28	N71-15658	Semiconductor material and method of making same Patent [NASA-CASE-XLE-02798]	c 26	N71-23654
Rocket engine injector Patent [NASA-CASE-XLE-00111]	c 28	N70-38199	Rocket motor casing Patent [NASA-CASE-XLE-05689]	c 28	N71-15659	Insulation system Patent [NASA-CASE-XLE-02647]	c 18	N71-23658
Reinforced metallic composites Patent [NASA-CASE-XLE-00228]	c 17	N70-38490	Electrostatic ion rocket engine Patent [NASA-CASE-XLE-02066]	c 28	N71-15661	Self-lubricating fluoride metal composite materials Patent [NASA-CASE-XLE-08511]	c 18	N71-23710
Rocket motor system Patent [NASA-CASE-XLE-00323]	c 28	N70-38505	High temperature cobalt-base alloy Patent [NASA-CASE-XLE-02991]	c 17	N71-16025	Alloys for bearings Patent [NASA-CASE-XLE-05033]	c 15	N71-23810
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent [NASA-CASE-XLE-00243]	c 14	N70-38602	Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent [NASA-CASE-XLE-02082]	c 17	N71-16026	Extrusion die for refractory metals Patent [NASA-CASE-XLE-06773]	c 15	N71-23817
Penshape exhaust nozzle for supersonic engine Patent [NASA-CASE-XLE-00057]	c 28	N70-38711	Method of improving the reliability of a rolling element system Patent [NASA-CASE-XLE-02999]	c 15	N71-16052	Combustion chamber Patent [NASA-CASE-XLE-04857]	c 28	N71-23968
Multistage multiple-reentry turbine Patent [NASA-CASE-XLE-00085]	c 28	N70-39895	Process of casting heavy slips Patent [NASA-CASE-XLE-00106]	c 15	N71-16076	Metallic film diffusion for boundary lubrication Patent [NASA-CASE-XLE-10337]	c 15	N71-24046
Gas lubricant compositions Patent [NASA-CASE-XLE-00353]	c 18	N70-39897	Boiler for generating high quality vapor Patent [NASA-CASE-XLE-00785]	c 33	N71-16104	Process for producing dispersion strengthened nickel with aluminum Patent [NASA-CASE-XLE-06969]	c 17	N71-24142
Telescoping-spike supersonic inlet for aircraft engines Patent [NASA-CASE-XLE-00005]	c 28	N70-39899	Method of making self lubricating fluoride-metal composite materials Patent [NASA-CASE-XLE-08511-2]	c 18	N71-16105	Thermal radiation shielding Patent [NASA-CASE-XLE-03432]	c 33	N71-24145
High temperature spark plug Patent [NASA-CASE-XLE-00660]	c 28	N70-39925	Thrust and direction control apparatus Patent [NASA-CASE-XLE-03583]	c 31	N71-17629	Method of attaching a cover glass to a silicon solar cell Patent [NASA-CASE-XLE-08569-2]	c 03	N71-24681
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent [NASA-CASE-XLE-01512]	c 12	N70-40124	Linear magnetic brake with two windings Patent [NASA-CASE-XLE-05079]	c 15	N71-17652			
Apparatus for absorbing and measuring power Patent [NASA-CASE-XLE-00720]	c 14	N70-40201	Method of lubricating rolling element bearings Patent [NASA-CASE-XLE-09527]	c 15	N71-17688			
Device for directionally controlling electromagnetic radiation Patent [NASA-CASE-XLE-01716]	c 09	N70-40234						

Rocket engine injector Patent			Electricity measurement devices employing liquid crystalline materials			Spiral groove seal		
[NASA-CASE-XLE-03157]	c 28	N71-24736	[NASA-CASE-ERC-10275]	c 26	N72-25680	[NASA-CASE-XLE-10326-4]	c 37	N74-15125
Multialarm summary alarm Patent			Ablative system			Method of making rolling element bearings		
[NASA-CASE-XLE-03061-1]	c 10	N71-24798	[NASA-CASE-LEW-10359]	c 33	N72-25911	[NASA-CASE-LEW-11087-2]	c 37	N74-15128
Apparatus for making curved reflectors Patent			Inductance device with vacuum insulation			Gas turbine exhaust nozzle		
[NASA-CASE-XLE-08917-2]	c 15	N71-24836	[NASA-CASE-LEW-10330-1]	c 09	N72-27226	[NASA-CASE-LEW-11569-1]	c 07	N74-15453
Flow angle sensor and read out system Patent			Apparatus for sensing temperature			Demodulator for carrier transducers		
[NASA-CASE-XLE-04503]	c 14	N71-24864	[NASA-CASE-XLE-05230]	c 14	N72-27410	[NASA-CASE-NUC-10107-1]	c 33	N74-17930
Shock tube powder dispersing apparatus Patent			Apparatus for producing metal powders			Diffusion welding in air		
[NASA-CASE-XLE-04946]	c 17	N71-24911	[NASA-CASE-XLE-06461-2]	c 17	N72-28535	[NASA-CASE-LEW-11387-1]	c 37	N74-18128
Pneumatic oscillator Patent			Refractory metal base alloy composites			Airflow control system for supersonic inlets		
[NASA-CASE-LEW-10345-1]	c 10	N71-25899	[NASA-CASE-XLE-03940-2]	c 17	N72-28536	[NASA-CASE-LEW-11188-1]	c 02	N74-20646
Heat activated cell with alkali anode and alkali salt electrolyte Patent			Spiral groove seal			Rapidly pulsed, high intensity, incoherent light source		
[NASA-CASE-LEW-11358]	c 03	N71-26084	[NASA-CASE-XLE-10326-2]	c 15	N72-29488	[NASA-CASE-XLE-2529-3]	c 33	N74-20859
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent			Production of high purity I-123			Electromagnetic flow rate meter		
[NASA-CASE-XLE-03940]	c 18	N71-26153	[NASA-CASE-LEW-10518-1]	c 24	N72-33681	[NASA-CASE-LEW-10981-1]	c 35	N74-21018
Ion beam deflector Patent			Electrostatic collector for charged particles			Diffusion welding		
[NASA-CASE-LEW-10689-1]	c 28	N71-26173	[NASA-CASE-LEW-11192-1]	c 09	N73-13208	[NASA-CASE-LEW-11388-2]	c 37	N74-21055
Rolling element bearings Patent			Method of making apparatus for sensing temperature			Journal bearings		
[NASA-CASE-XLE-09527-2]	c 15	N71-26189	[NASA-CASE-XLE-05230-2]	c 14	N73-13417	[NASA-CASE-LEW-11076-1]	c 37	N74-21061
Ion thruster accelerator system Patent			Method of forming superalloys			Glass-to-metal seals comprising relatively high expansion metals		
[NASA-CASE-LEW-10106-1]	c 28	N71-26642	[NASA-CASE-LEW-10805-1]	c 15	N73-13465	[NASA-CASE-LEW-10698-1]	c 37	N74-21063
Propellant feed isolator Patent			Rocket thrust throttling system			Hollow rolling element bearings		
[NASA-CASE-LEW-10210-1]	c 28	N71-26781	[NASA-CASE-LEW-10374-1]	c 28	N73-13773	[NASA-CASE-LEW-11087-3]	c 37	N74-21064
Heat activated cell Patent			Gas turbine engine fuel control			Low level signal limiter		
[NASA-CASE-LEW-11359]	c 03	N71-28579	[NASA-CASE-LEW-11187-1]	c 28	N73-19793	[NASA-CASE-XLE-04791]	c 32	N74-22096
Process for glass coating an ion accelerator grid Patent			Thermocouple tape			Load insensitive electrical device		
[NASA-CASE-LEW-10278-1]	c 15	N71-28582	[NASA-CASE-LEW-11072-1]	c 14	N73-24472	[NASA-CASE-XER-11046-2]	c 33	N74-22864
Fluid jet amplifier Patent			Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias			Reinforced structural plastics		
[NASA-CASE-XLE-09341]	c 12	N71-28741	[NASA-CASE-LEW-10920-1]	c 17	N73-24569	[NASA-CASE-LEW-10199-1]	c 27	N74-23125
Gas core nuclear reactor Patent			Magneto-plasma-dynamic arc thruster			Jet exhaust noise suppressor		
[NASA-CASE-LEW-10250-1]	c 22	N71-28759	[NASA-CASE-LEW-11180-1]	c 25	N73-25760	[NASA-CASE-LEW-11286-1]	c 07	N74-27490
Gas turbine combustor Patent			Ablative system			High current electrical lead		
[NASA-CASE-LEW-10286-1]	c 28	N71-28915	[NASA-CASE-LEW-10359-2]	c 33	N73-25952	[NASA-CASE-LEW-10950-1]	c 33	N74-27683
Cyclic switch Patent			Parasitic suppressing circuit			Magnetocaloric pump		
[NASA-CASE-LEW-10155-1]	c 09	N71-29035	[NASA-CASE-ERC-10403-1]	c 10	N73-26228	[NASA-CASE-LEW-11672-1]	c 37	N74-27904
Temperature reducing coating for metals subject to flame exposure Patent			Twisted multifilament superconductor			Supersonic fan blading		
[NASA-CASE-XLE-00035]	c 33	N71-29151	[NASA-CASE-LEW-11726-1]	c 26	N73-26752	[NASA-CASE-LEW-11402-1]	c 07	N74-28226
Liquid spray cooling method Patent			Ophthalmic method and apparatus			Production of pure metals		
[NASA-CASE-XLE-00027]	c 33	N71-29152	[NASA-CASE-LEW-11669-1]	c 05	N73-27062	[NASA-CASE-LEW-10906-1]	c 25	N74-30502
Turbo-machine blade vibration damper Patent			Single grid accelerator for an ion thruster			Sputtering holes with ion beamlets		
[NASA-CASE-XLE-00155]	c 28	N71-29154	[NASA-CASE-XLE-10453-2]	c 28	N73-27699	[NASA-CASE-LEW-11646-1]	c 20	N74-31269
Corrosion resistant beryllium Patent			Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids			Method of electroforming a rocket chamber		
[NASA-CASE-LEW-10327]	c 17	N71-33408	[NASA-CASE-LEW-11325-1]	c 06	N73-27980	[NASA-CASE-LEW-11118-1]	c 20	N74-32919
Integrated thermoelectric generator/space antenna combination			Method and apparatus for measuring electromagnetic radiation			Journal Bearings		
[NASA-CASE-XER-09521]	c 09	N72-12136	[NASA-CASE-LEW-11159-1]	c 14	N73-28488	[NASA-CASE-LEW-11076-2]	c 37	N74-32921
Sensing probe			Welding blades to rotors			Hall effect magnetometer		
[NASA-CASE-LEW-10281-1]	c 14	N72-17327	[NASA-CASE-LEW-10533-1]	c 15	N73-28515	[NASA-CASE-LEW-11632-2]	c 35	N75-13213
Method of making emf cell			Low mass rolling element for bearings			Method of protecting the surface of a substrate		
[NASA-CASE-LEW-11359-2]	c 03	N72-20034	[NASA-CASE-LEW-11087-1]	c 15	N73-30458	[NASA-CASE-LEW-11696-1]	c 37	N75-13261
Gaseous control system for nuclear reactors			Swirl can primary combustor			Circuit for detecting initial systole and diastolic notch		
[NASA-CASE-XLE-04599]	c 22	N72-20597	[NASA-CASE-LEW-11326-1]	c 23	N73-30665	[NASA-CASE-LEW-11581-1]	c 54	N75-13531
Switching regulator			Enhanced diffusion welding			Method of making dish ion thruster grids		
[NASA-CASE-LEW-11005-1]	c 09	N72-21243	[NASA-CASE-LEW-11388-1]	c 15	N73-32358	[NASA-CASE-LEW-11694-1]	c 20	N75-18310
Saturation current protection apparatus for saturable core transformers			High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series			Duplex aluminized coatings		
[NASA-CASE-ERC-10075-2]	c 09	N72-22196	[NASA-CASE-LEW-11152-1]	c 15	N73-32359	[NASA-CASE-LEW-11696-2]	c 26	N75-19408
Pulse coupling circuit			Nickel aluminide coated low alloy stainless steel			High speed, self-acting shaft seal		
[NASA-CASE-LEW-10433-1]	c 09	N72-22197	[NASA-CASE-LEW-11267-1]	c 17	N73-32414	[NASA-CASE-LEW-11274-1]	c 37	N75-21631
Solid state remote circuit selector switch			Cobalt-base alloy			High power laser apparatus and system		
[NASA-CASE-LEW-10387]	c 09	N72-22201	[NASA-CASE-LEW-10436-1]	c 17	N73-32415	[NASA-CASE-XLE-2529-2]	c 36	N75-27364
Load-insensitive electrical device			Nuclear fuel elements			Combination automatic-starting electrical plasma torch and gas shutoff valve		
[NASA-CASE-XER-11046]	c 09	N72-22203	[NASA-CASE-XLE-00209]	c 22	N73-32528	[NASA-CASE-XLE-10717]	c 37	N75-29426
High speed rolling element bearing			Method of fabricating a twisted composite superconductor			Flow measuring apparatus		
[NASA-CASE-LEW-10856-1]	c 15	N72-22490	[NASA-CASE-LEW-11015]	c 26	N73-32571	[NASA-CASE-LEW-12078-1]	c 35	N75-30503
Production of metal powders			Space vehicle with artificial gravity and earth-like environment			Lubricated journal bearing		
[NASA-CASE-XLE-06461]	c 17	N72-22530	[NASA-CASE-LEW-11101-1]	c 31	N73-32750	[NASA-CASE-LEW-11076-3]	c 37	N75-30562
Nickel base alloy			Production of hollow components for rolling element bearings by diffusion welding			Protected isotope heat source		
[NASA-CASE-LEW-10874-1]	c 17	N72-22535	[NASA-CASE-LEW-11026-1]	c 15	N73-33383	[NASA-CASE-LEW-11227-1]	c 73	N75-30876
Ion thruster magnetic field control			Electron beam controller			Drilled ball bearing with a one piece anti-tipping cage assembly		
[NASA-CASE-LEW-10835-1]	c 28	N72-22771	[NASA-CASE-LEW-11617-1]	c 33	N74-10195	[NASA-CASE-LEW-11925-1]	c 37	N75-31446
Electrically conductive fluorocarbon polymer			Spiral groove seal			Method of making an insulation foil		
[NASA-CASE-XLE-06774-2]	c 06	N72-25150	[NASA-CASE-LEW-10326-3]	c 37	N74-10474	[NASA-CASE-LEW-11484-1]	c 24	N75-33181
Analog Signal to Discrete Time Interval Converter (ASDTIC)			Method of heat treating a formed powder product material			Ophthalmic liquifaction pump		
[NASA-CASE-ERC-10048]	c 09	N72-25251	[NASA-CASE-LEW-10805-3]	c 26	N74-10521	[NASA-CASE-LEW-12051-1]	c 52	N75-33640
Controllable load insensitive power converters			Apparatus for welding blades to rotors			Controlled separation combustor		
[NASA-CASE-ERC-10268]	c 09	N72-25252	[NASA-CASE-LEW-10533-2]	c 37	N74-11300	[NASA-CASE-LEW-11593-1]	c 20	N76-14190
Angular velocity and acceleration measuring apparatus			High powered arc electrodes			Rocket chamber and method of making		
[NASA-CASE-ERC-10292]	c 14	N72-25410	[NASA-CASE-LEW-11162-1]	c 33	N74-12913	[NASA-CASE-LEW-11118-2]	c 20	N76-14191
Electrical insulating layer process			Method of forming articles of manufacture from superalloy powders			Shock position sensor for supersonic inlets		
[NASA-CASE-LEW-10489-1]	c 15	N72-25447	[NASA-CASE-LEW-10805-2]	c 37	N74-13179	[NASA-CASE-LEW-11915-1]	c 35	N76-14431
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering			Deposition of alloy films			Apparatus for forming dish ion thruster grids		
[NASA-CASE-LEW-10450-1]	c 15	N72-25448	[NASA-CASE-LEW-11262-1]	c 27	N74-13270	[NASA-CASE-LEW-11694-2]	c 37	N76-14461
Selective nickel deposition			Supersonic-combustion rocket			Covered silicon solar cells and method of manufacture		
[NASA-CASE-LEW-10965-1]	c 15	N72-25452	[NASA-CASE-LEW-11058-1]	c 20	N74-13502	[NASA-CASE-LEW-11065-2]	c 44	N76-14600
Method of making fiber composites			Method of making silicon solar cell array			High temperature beryllium oxide capacitor		
[NASA-CASE-LEW-10424-2-2]	c 18	N72-25539	[NASA-CASE-LEW-11069-1]	c 44	N74-14784	[NASA-CASE-LEW-11938-1]	c 33	N76-15373

Fused silicide coatings containing discrete particles for protecting niobium alloys [NASA-CASE-LEW-11179-1]	c 27	N76-16229	Trimerization of aromatic nitriles [NASA-CASE-LEW-12053-1]	c 27	N78-15276	Fine particulate capture device [NASA-CASE-LEW-11583-1]	c 35	N79-17192
Process for making anhydrous metal halides [NASA-CASE-LEW-11860-1]	c 37	N76-18458	Variable thrust nozzle for quiet turbofan engine and method of operating same [NASA-CASE-LEW-12317-1]	c 07	N78-17055	Formulated plastic separators for soluble electrode cells [NASA-CASE-LEW-12358-1]	c 44	N79-17313
Method of constructing dished ion thruster grids to provide hole array spacing compensation [NASA-CASE-LEW-11876-1]	c 20	N76-21276	Gas turbine engine with convertible accessories [NASA-CASE-LEW-12390-1]	c 07	N78-17056	Method of making bearing materials [NASA-CASE-LEW-11930-4]	c 24	N79-17916
Bearing material [NASA-CASE-LEW-11930-1]	c 24	N76-22309	Closed loop spray cooling apparatus [NASA-CASE-LEW-11981-1]	c 31	N78-17237	Composite seal for turbomachinery [NASA-CASE-LEW-12131-1]	c 37	N79-18318
Fluid seal for rotating shafts [NASA-CASE-LEW-11676-1]	c 37	N76-22541	Particle parameter analyzing system [NASA-CASE-XLE-06094]	c 33	N78-17293	Method for fabricating solar cells having integrated collector grids [NASA-CASE-LEW-12819-2]	c 44	N79-18444
Method of making an apertured casting [NASA-CASE-LEW-11169-1]	c 37	N76-23570	Magnetic heat pumping [NASA-CASE-LEW-12508-1]	c 34	N78-17335	Closed Loop solar array-ion thruster system with power control circuitry [NASA-CASE-LEW-12780-1]	c 20	N79-20179
Process for fabricating SiC semiconductor devices [NASA-CASE-LEW-12094-1]	c 76	N76-25049	Variable cycle gas turbine engines [NASA-CASE-LEW-12916-1]	c 37	N78-17384	Closed loop spray cooling apparatus [NASA-CASE-LEW-11981-2]	c 34	N79-20336
Method of producing I-123 [NASA-CASE-LEW-11390-2]	c 25	N76-27383	Integrated gas turbine engine-nacelle [NASA-CASE-LEW-12389-2]	c 07	N78-18066	Hypervelocity gun [NASA-CASE-XLE-03186-1]	c 09	N79-21084
Production of I-123 [NASA-CASE-LEW-11390-3]	c 25	N76-29379	Variable mixer propulsion cycle [NASA-CASE-LEW-12917-1]	c 07	N78-18067	Low heat leak connector for cryogenic system [NASA-CASE-XLE-02367-1]	c 31	N79-21225
Thrust bearing [NASA-CASE-LEW-11949-1]	c 37	N76-29588	Tantalum modified ferritic iron base alloys [NASA-CASE-LEW-12095-1]	c 26	N78-18182	Method for the preparation of inorganic single crystal and polycrystalline electronic materials [NASA-CASE-XLE-02545-1]	c 76	N79-21910
Ion beam thruster shield [NASA-CASE-LEW-12082-1]	c 20	N77-10148	Directionally solidified eutectic gamma-gamma nickel-base superalloys [NASA-CASE-LEW-12905-1]	c 26	N78-18183	Method and device for the detection of phenol and related compounds [NASA-CASE-LEW-12513-1]	c 25	N79-22235
Dual output variable pitch turbofan actuation system [NASA-CASE-LEW-12419-1]	c 07	N77-14025	Thermal barrier coating system [NASA-CASE-LEW-12554-1]	c 34	N78-18355	Process for making a high toughness-high strength ion alloy [NASA-CASE-LEW-12542-2]	c 26	N79-22271
Silicon nitride coated, plastic covered solar cell [NASA-CASE-LEW-11496-1]	c 44	N77-14580	Selective coating for solar panels [NASA-CASE-LEW-12159-1]	c 44	N78-19599	Shaft seal assembly for high speed and high pressure applications [NASA-CASE-LEW-11873-1]	c 37	N79-22475
Electrically rechargeable REDOX flow cell [NASA-CASE-LEW-12220-1]	c 44	N77-14581	Atomic hydrogen storage method and apparatus [NASA-CASE-LEW-12081-1]	c 28	N78-24365	Self stabilizing sonic inlet [NASA-CASE-LEW-11890-1]	c 05	N79-24976
Reverse pitch fan with divided splitter [NASA-CASE-LEW-12760-1]	c 07	N77-17059	Automotive gas turbine fuel control [NASA-CASE-LEW-12785-1]	c 37	N78-24545	In situ self cross-linking of polyvinyl alcohol battery separators [NASA-CASE-LEW-12972-1]	c 44	N79-25481
Electronic analog divider [NASA-CASE-LEW-11881-1]	c 33	N77-17354	Gas turbine engine with recirculating bleed [NASA-CASE-LEW-12452-1]	c 07	N78-25089	Electrochemical cell for rebalancing REDOX flow system [NASA-CASE-LEW-13150-1]	c 44	N79-26474
Leading edge protection for composite blades [NASA-CASE-LEW-12550-1]	c 24	N77-19170	Counter pumping debris excluder and separator [NASA-CASE-LEW-11855-1]	c 07	N78-25090	Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby [NASA-CASE-LEW-12053-2]	c 27	N79-28307
Method of making reinforced composite structure [NASA-CASE-LEW-12619-1]	c 24	N77-19171	Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field [NASA-CASE-LEW-12465-1]	c 25	N78-25148	Supercharged topping rocket propellant feed system [NASA-CASE-XLE-02062-1]	c 20	N80-14188
Solar cell assembly [NASA-CASE-LEW-11549-1]	c 44	N77-19571	Flow compensating pressure regulator [NASA-CASE-LEW-12718-1]	c 34	N78-25351	Self-reconfiguring solar cell system [NASA-CASE-LEW-12586-1]	c 44	N80-14472
Anode for ion thruster [NASA-CASE-LEW-12048-1]	c 20	N77-20162	Solar cell collector [NASA-CASE-LEW-12552-1]	c 44	N78-25527	Intra-ocular pressure normalization technique and equipment [NASA-CASE-LEW-12955-1]	c 52	N80-14684
Zirconium modified nickel-copper alloy [NASA-CASE-LEW-12245-1]	c 26	N77-20201	Method of making encapsulated solar cell modules [NASA-CASE-LEW-12185-1]	c 44	N78-25528	Method and apparatus for rapid thrust increases in a turbofan engine [NASA-CASE-LEW-12971-1]	c 07	N80-18039
Gels as battery separators for soluble electrode cells [NASA-CASE-LEW-12364-1]	c 44	N77-22606	Method for producing solar energy panels by automation [NASA-CASE-LEW-12541-1]	c 44	N78-25529	Gas path seal [NASA-CASE-NPO-12131-3]	c 37	N80-18400
Oil cooling system for a gas turbine engine [NASA-CASE-LEW-12830-1]	c 07	N77-23106	Inorganic-organic separators for alkaline batteries [NASA-CASE-LEW-12649-1]	c 44	N78-25530	Intra-ocular pressure normalization technique and equipment [NASA-CASE-LEW-12723-1]	c 52	N80-18690
Process for preparing liquid metal electrical contact device [NASA-CASE-LEW-11978-1]	c 33	N77-26385	Targets for producing high purity I-123 [NASA-CASE-LEW-10518-3]	c 25	N78-27226	Atomic hydrogen storage [NASA-CASE-LEW-12081-2]	c 28	N80-20402
Blade retainer assembly [NASA-CASE-LEW-12608-1]	c 07	N77-27116	Direct heating surface combustor [NASA-CASE-LEW-11877-1]	c 34	N78-27357	Catalyst surfaces for the chromous/chromic redox couple [NASA-CASE-LEW-13148-1]	c 33	N80-20487
Hybrid composite laminate structures [NASA-CASE-LEW-12118-1]	c 24	N77-27188	Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter [NASA-CASE-LEW-12791-1]	c 33	N78-32341	Modification of the electrical and optical properties of polymers [NASA-CASE-LEW-13027-1]	c 27	N80-24437
Bimetallic junctions [NASA-CASE-LEW-11573-1]	c 26	N77-28265	Redundant disc [NASA-CASE-LEW-12496-1]	c 07	N78-33101	Heat exchanger and method of making [NASA-CASE-LEW-12441-2]	c 34	N80-24573
Sustained arc ignition system [NASA-CASE-LEW-12444-1]	c 33	N77-28385	Apparatus and method for reducing thermal stress in a turbine rotor [NASA-CASE-LEW-12232-1]	c 07	N79-10057	Composite seal for turbomachinery [NASA-CASE-LEW-12131-2]	c 37	N80-26658
Hydrostatic bearing support [NASA-CASE-LEW-11158-1]	c 37	N77-28486	Traveling wave tube circuit [NASA-CASE-LEW-12013-1]	c 33	N79-10339	Circumferential shaft seal [NASA-CASE-LEW-12119-1]	c 37	N80-28711
Corneal seal device [NASA-CASE-LEW-12258-1]	c 52	N77-28716	Cantilever mounted resilient pad gas bearing [NASA-CASE-LEW-12569-1]	c 37	N79-10418	Free-piston regenerative hot gas hydraulic engine [NASA-CASE-LEW-12274-1]	c 37	N80-31790
Solar cell shingle [NASA-CASE-LEW-12587-1]	c 44	N77-31601	Fuel delivery system including heat exchanger means [NASA-CASE-LEW-12793-1]	c 37	N79-11403	High toughness-high strength iron alloy [NASA-CASE-LEW-12542-3]	c 26	N80-32484
Platform for a swing root turbomachinery blade [NASA-CASE-LEW-12312-1]	c 07	N77-32148	Solar cells having integral collector grids [NASA-CASE-LEW-12819-1]	c 44	N79-11467	Method of cross-linking polyvinyl alcohol and other water soluble resins [NASA-CASE-LEW-13103-1]	c 27	N80-32516
Directionally solidified eutectic gamma plus beta nickel-base superalloys [NASA-CASE-LEW-12906-1]	c 26	N77-32279	Application of semiconductor diffusants to solar cells by screen printing [NASA-CASE-LEW-12775-1]	c 44	N79-11468	Hydrogen hollow cathode ion source [NASA-CASE-LEW-12940-1]	c 72	N80-33186
Nickel base alloy [NASA-CASE-LEW-12270-1]	c 26	N77-32280	Solar cell collector and method for producing same [NASA-CASE-LEW-12552-2]	c 44	N79-11472	Method of making bearing material [NASA-CASE-LEW-11930-3]	c 24	N80-33482
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance [NASA-CASE-LEW-12050-1]	c 35	N77-32454	Heat exchanger [NASA-CASE-LEW-12252-1]	c 34	N79-13288	Solar cell system having alternating current output [NASA-CASE-LEW-12806-2]	c 44	N81-12542
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Deformable bearing seat [NASA-CASE-LEW-12527-1]	c 37	N77-32500	Cam-operated pitch-change apparatus [NASA-CASE-LEW-13050-1]	c 07	N79-14095	Curved centerline air intake for a gas turbine engine [NASA-CASE-LEW-13201-1]	c 07	N81-14999
Bearing seat usable in a gas turbine engine [NASA-CASE-LEW-12477-1]	c 37	N77-32501	Integrated gas turbine engine-nacelle [NASA-CASE-LEW-12389-3]	c 07	N79-14096	Improved refractory coatings [NASA-CASE-LEW-23169-2]	c 26	N81-16209
Fuel combustor [NASA-CASE-LEW-12137-1]	c 25	N78-10224	Variable area exhaust nozzle [NASA-CASE-LEW-12378-1]	c 07	N79-14097	Method for alleviating thermal stress damage in laminates [NASA-CASE-LEW-12493-1]	c 24	N81-17170
Oil cooling system for a gas turbine engine [NASA-CASE-LEW-12321-1]	c 37	N78-10467	Indicated mean-effective pressure instrument [NASA-CASE-LEW-12661-1]	c 35	N79-14345			
Impact absorbing blade mounts for variable pitch blades [NASA-CASE-LEW-12313-1]	c 37	N78-10468	Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance [NASA-CASE-LEW-12174-2]	c 35	N79-14346			
Method of forming metal hydride films [NASA-CASE-LEW-12083-1]	c 37	N78-13436	Back wall solar cell [NASA-CASE-LEW-12236-2]	c 44	N79-14528			
In-situ laser retorting of oil shale [NASA-CASE-LEW-12217-1]	c 43	N78-14452	Sound-suppressing structure with thermal relief [NASA-CASE-LEW-12658-1]	c 71	N79-14871			
Multi-cell battery protection system [NASA-CASE-LEW-12039-1]	c 44	N78-14625						
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Curing agent for polyepoxides and epoxy resins and composites cured therewith					
[NASA-CASE-LEW-13226-1]	c 27	N81-17260			
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[NASA-CASE-LEW-12907-2]	c 07	N81-19115			
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[NASA-CASE-LEW-12594-2]	c 07	N81-19116			
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[NASA-CASE-LEW-12933-1]	c 27	N81-19296			
Method of cold welding using ion beam technology					
[NASA-CASE-LEW-12982-1]	c 37	N81-19455			
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[NASA-CASE-LEW-12445-1]	c 37	N81-22360			
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[NASA-CASE-LEW-13135-2]	c 27	N81-24257			
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[NASA-CASE-LEW-12991-1]	c 37	N81-24442			
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[NASA-CASE-LEW-12441-3]	c 44	N81-24519			
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[NASA-CASE-LEW-12119-2]	c 37	N81-26447			
Polyvinyl alcohol battery separator containing inert filler					
[NASA-CASE-LEW-13556-1]	c 44	N81-27615			
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[NASA-CASE-LEW-12990-1]	c 07	N81-29129			
Cross-linked polyvinyl alcohol and method of making same					
[NASA-CASE-LEW-13101-2]	c 23	N81-29160			
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[NASA-CASE-LEW-13148-2]	c 44	N81-29524			
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[NASA-CASE-LEW-12950-1]	c 34	N82-11399			
Modified face seal for positive film stiffness					
[NASA-CASE-LEW-12989-1]	c 37	N82-12442			
Composite seal for turbomachinery					
[NASA-CASE-LEW-12131-3]	c 37	N82-19540			
Method of making formulated plastic separators for soluble electrode cells					
[NASA-CASE-LEW-12358-2]	c 25	N82-21268			
Multistage depressed collector for dual mode operation					
[NASA-CASE-LEW-13282-1]	c 33	N82-24415			
Thrust reverser for a long duct fan engine					
[NASA-CASE-LEW-13199-1]	c 07	N82-26293			
Coupled cavity traveling wave tube with velocity tapering					
[NASA-CASE-LEW-12296-1]	c 33	N82-26568			
Fully plasma-sprayed compliant backed ceramic turbine seal					
[NASA-CASE-LEW-13268-2]	c 37	N82-26674			
Texturing polymer surfaces by transfer casting					
[NASA-CASE-LEW-13120-1]	c 27	N82-28440			
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[NASA-CASE-LEW-13343-1]	c 27	N82-28441			
Refractory coatings and method of producing the same					
[NASA-CASE-LEW-13169-1]	c 26	N82-29415			
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[NASA-CASE-LEW-13268-1]	c 27	N82-29453			
Advanced inorganic separators for alkaline batteries					
[NASA-CASE-LEW-13171-1]	c 44	N82-29708			
Method of making a high voltage V-groove solar cell					
[NASA-CASE-LEW-13401-1]	c 44	N82-29709			
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[NASA-CASE-LEW-13169-2]	c 26	N82-30371			
Nicral ternary alloy having improved cyclic oxidation resistance					
[NASA-CASE-LEW-13339-1]	c 26	N82-31505			
High voltage planar multijunction solar cell					
[NASA-CASE-LEW-13400-1]	c 44	N82-31764			
Active clearance control system for a turbomachine					
[NASA-CASE-LEW-12938-1]	c 07	N82-32366			
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[NASA-CASE-LEW-13028-1]	c 27	N82-33521			
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[NASA-CASE-LEW-12919-1]	c 24	N83-10117			
Mechanical bonding of metal method					
[NASA-CASE-LEW-12941-1]	c 26	N83-10170			
Method for depositing an oxide coating					
[NASA-CASE-LEW-13131-1]	c 44	N83-10494			
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[NASA-CASE-LEW-13504-1]	c 25	N83-13188			
Solar cell having improved back surface reflector					
[NASA-CASE-LEW-13620-1]	c 44	N83-13579			
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[NASA-CASE-LEW-12892-1]	c 44	N83-14692			
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[NASA-CASE-LEW-12253-1]	c 74	N83-19596			
Laser surface fusion of plasma sprayed ceramic turbine seals					
[NASA-CASE-LEW-13269-1]	c 18	N83-20996			
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt					
[NASA-CASE-LEW-13107-1]	c 52	N83-21785			
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[NASA-CASE-LEW-13174-1]	c 34	N83-27144			
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[NASA-CASE-LEW-13246-1]	c 44	N83-27344			
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[NASA-CASE-LEW-12876-2]	c 27	N83-29392			
Magnetic heat pumping					
[NASA-CASE-LEW-12508-3]	c 34	N83-29625			
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[NASA-CASE-LEW-14586-1]	c 07	N83-31603			
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[NASA-CASE-LEW-13343]	c 26	N83-31795			
Thermal barrier coating system having improved adhesion					
[NASA-CASE-LEW-1335901]	c 27	N83-31855			
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[NASA-CASE-LEW-13429-1]	c 33	N83-31952			
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[NASA-CASE-LEW-12443-1]	c 44	N83-32175			
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[NASA-CASE-LEW-13171-2]	c 44	N83-32176			
High voltage v-groove solar cell					
[NASA-CASE-LEW-13401-2]	c 44	N83-32177			
Piezoelectric composite materials					
[NASA-CASE-LEW-12582-1]	c 76	N83-34796			
Covering solid, film cooled surfaces with a duplex thermal barrier coating					
[NASA-CASE-LEW-13450-1]	c 31	N83-35177			
Joining lead wires to thin platinum alloy films					
[NASA-CASE-LEW-13934-1]	c 35	N83-35338			
Apparatus for improving the fuel efficiency of a gas turbine engine					
[NASA-CASE-LEW-13142-1]	c 07	N83-36029			
Additive for zinc electrodes					
[NASA-CASE-LEW-13286-1]	c 33	N84-14422			
Micronized coal burner facility					
[NASA-CASE-LEW-13426-1]	c 25	N84-16276			
Ladder supported ring bar circuit					
[NASA-CASE-LEW-13570-1]	c 33	N84-16452			
Real time pressure signal system for a rotary engine					
[NASA-CASE-LEW-13622-1]	c 07	N84-22559			
Tip cap for a rotor blade					
[NASA-CASE-LEW-13654-1]	c 07	N84-22560			
Diamondlike flake composites					
[NASA-CASE-LEW-13837-1]	c 24	N84-22695			
Method of making a light weight battery plaque					
[NASA-CASE-LEW-13349-1]	c 26	N84-22734			
Multicolor printing plate joining					
[NASA-CASE-LEW-13598-1]	c 35	N84-22930			
Method and apparatus for coating substrates using a laser					
[NASA-CASE-LEW-13526-1]	c 36	N84-22944			
Method of fabricating an abrasible gas path seal					
[NASA-CASE-LEW-13269-2]	c 37	N84-22957			
Heat pipes to reduce engine exhaust emissions					
[NASA-CASE-LEW-12590-1]	c 37	N84-22958			
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt					
[NASA-CASE-LEW-13107-2]	c 52	N84-23095			
Combustor liner construction					
[NASA-CASE-LEW-14035-1]	c 07	N84-24577			
Method and apparatus for gripping uniaxial fibrous composite materials					
[NASA-CASE-LEW-13758-1]	c 24	N84-27829			
Coating with overlay metallic-cermet alloy systems					
[NASA-CASE-LEW-13639-2]	c 26	N84-27855			
Chemical approach for controlling nadimide cure temperature and rate					
[NASA-CASE-LEW-13770-1]	c 27	N84-27885			
Dielectric based submillimeter backward wave oscillator circuit					
[NASA-CASE-LEW-13736-1]	c 33	N84-27974			
Chromium electrodes for REDOX cells					
[NASA-CASE-LEW-13653-1]	c 44	N84-28205			
Ion sputter textured graphite electrode plates					
[NASA-CASE-LEW-12919-2]	c 70	N84-28565			
Air modulation apparatus					
[NASA-CASE-LEW-13524-1]	c 07	N84-33410			
Overlay metallic-cermet alloy coating systems					
[NASA-CASE-LEW-13639-1]	c 26	N84-33555			
Simplified dc to dc converter					
[NASA-CASE-LEW-13495-1]	c 33	N84-33663			
Diesel engine catalytic combustor system					
[NASA-CASE-LEW-12995-1]	c 37	N84-33808			
Deposition of diamondlike carbon films					
[NASA-CASE-LEW-14080-1]	c 31	N85-20153			
Screen printed interdigitated back contact solar cell					
[NASA-CASE-LEW-13414-1]	c 44	N85-20530			
Ring-cusp ion thruster with shell anode					
[NASA-CASE-LEW-13881-1]	c 20	N85-21256			
Thermal barrier coating system					
[NASA-CASE-LEW-13324-2]	c 24	N85-21266			
Diamondlike flakes					
[NASA-CASE-LEW-13837-2]	c 24	N85-21267			
Chemical approach for controlling nadimide cure temperature and rate with maleimide					
[NASA-CASE-LEW-13770-3]	c 27	N85-21350			
Chemical approach for controlling nadimide cure temperature and rate with maleimide					
[NASA-CASE-LEW-13770-4]	c 27	N85-21351			
Chemical approach for controlling nadimide cure temperature and rate					
[NASA-CASE-LEW-13770-5]	c 27	N85-21352			
Inelastic tunnel diodes					
[NASA-CASE-LEW-13833-1]	c 33	N85-21492			
Solar energy converter using surface plasma waves					
[NASA-CASE-LEW-13827-1]	c 44	N85-21768			
Chemical control of nadimide cure temperature and rate					
[NASA-CASE-LEW-13770-2]	c 25	N85-28982			
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid					
[NASA-CASE-LEW-13102-1]	c 33	N85-29144			
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes					
[NASA-CASE-LEW-12950-2]	c 34	N85-29179			
Arc spray fabrication of metal matrix composite monolayer					
[NASA-CASE-LEW-13828-1]	c 24	N85-30027			
Chemical approach for controlling nadimide cure temperature and rate					
[NASA-CASE-LEW-13770-6]	c 25	N85-30039			
Variable force, eddy-current or magnetic damper					
[NASA-CASE-LEW-13717-1]	c 37	N85-30333			
Vortex generating flow passage design for increased film cooling effectiveness					
[NASA-CASE-LEW-14039-1]	c 34	N85-33433			
Multistage spent particle collector and a method for making same					
[NASA-CASE-LEW-13914-1]	c 37	N85-33489			
Dual clearance squeeze film damper					
[NASA-CASE-LEW-13506-1]	c 37	N85-33490			
Thermionic photovoltaic energy converter					
[NASA-CASE-LEW-14077-1]	c 44	N85-34441			
Flow modifying device					
[NASA-CASE-LEW-13562-2]	c 07	N85-35195			
Thermal barrier coating system					
[NASA-CASE-LEW-14057-1]	c 24	N85-35233			
Oxidation resistant slurry coating for carbon-based materials					
[NASA-CASE-LEW-13923-1]	c 26	N85-35267			
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide					
[NASA-CASE-LEW-13864-1]	c 27	N86-19457			
Oxidation protection coatings for polymers					
[NASA-CASE-LEW-14072-1]	c 27	N86-19458			
Compliant hydrodynamic fluid journal bearing					
[NASA-CASE-LEW-13670-1]	c 37	N86-19606			
Negative electrode catalyst for the iron chromium redox energy storage system					
[NASA-CASE-LEW-14028-1]	c 44	N86-19721			
Method for improving the fuel efficiency of a gas turbine engine					
[NASA-CASE-LEW-13142-2]	c 07	N86-20389			
Piezoelectric deicing device					
[NASA-CASE-LEW-13773-2]	c 33	N86-20671			
Hybrid power semiconductor					
[NASA-CASE-LEW-13922-1]	c 33	N86-20672			
Method and apparatus for rebalancing a REDOX flow cell system					
[NASA-CASE-LEW-14127-1]	c 33	N86-20680			
Linearized traveling wave amplifier with hard limiter characteristics					
[NASA-CASE-LEW-13981-2]	c 33	N86-21742			
Variable friction secondary seal for face seals					
[NASA-CASE-LEW-14170-1]	c 37	N86-25790			
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries					
[NASA-CASE-LEW-13822-1]	c 44	N86-25874			
Apparatus for producing oxidation protection coatings for polymers					
[NASA-CASE-LEW-14072-2]	c 27	N86-32569			

Textured carbon surfaces on copper by sputtering				Multi-heat addition turbine engine				Monolithic mm-wave phase shifter using optically activated superconducting switches			
[NASA-CASE-LEW-14130-1]	c 31	N86-32587		[NASA-CASE-LEW-15094-1]	c 07	N91-23180		[NASA-CASE-LEW-14878-1]	c 74	N92-28571	
Lithium counterdoped silicon solar cell				Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis				Oxidation resistant coating for titanium alloys and titanium alloy matrix composites			
[NASA-CASE-LEW-14177-1]	c 44	N86-32875		[NASA-CASE-LEW-14345-4]	c 23	N91-25185		[NASA-CASE-LEW-15155-1]	c 27	N92-29090	
Nickel base coating alloy				Method of applying a thermal barrier coating system to a substrate				Removable hand hold			
[NASA-CASE-LEW-13834-1]	c 26	N87-14482		[NASA-CASE-LEW-15020-2]	c 24	N91-25202		[NASA-CASE-LEW-15196-1]	c 37	N92-29092	
Heat exchanger for electrothermal devices				Arc-textured high emittance radiator surfaces				Pulse thermal energy transport/storage system			
[NASA-CASE-LEW-14037-1]	c 20	N87-16875		[NASA-CASE-LEW-14679-1]	c 27	N91-25296		[NASA-CASE-LEW-15235-1]	c 34	N92-29125	
Ion beam sputter etching				Ceramic coatings on smooth surfaces				Solar thermal energy receiver			
[NASA-CASE-LEW-13899-1]	c 31	N87-21160		[NASA-CASE-LEW-15164-1]	c 27	N91-25298		[NASA-CASE-LEW-14949-1]	c 44	N92-29143	
Precision tunable resonant microwave cavity				Plasma gun with coaxial powder feed and adjustable cathode				Graphite fluoride from iodine intercalated graphitized carbon			
[NASA-CASE-LEW-13935-1]	c 33	N87-21234		[NASA-CASE-LEW-14901-1]	c 75	N91-25875		[NASA-CASE-LEW-15360-1]	c 25	N92-34206	
Oxidation protection coatings for polymers				Method of injecting fluid propellants into a rocket combustion chamber				Heat transfer device			
[NASA-CASE-LEW-14072-3]	c 27	N87-23736		[NASA-CASE-LEW-14846-2]	c 20	N91-26200		[NASA-CASE-LEW-14162-3]	c 24	N92-34208	
Carbide-fluoride-silver self-lubricating composite				Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers				Method of reducing drag in aerodynamic systems			
[NASA-CASE-LEW-14196-2]	c 37	N87-25585		[NASA-CASE-LEW-15222-1]	c 76	N91-26966		[NASA-CASE-LEW-14791-1]	c 02	N92-34243	
Heat treatment for superalloy				Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers				National Aeronautics and Space Administration.			
[NASA-CASE-LEW-14262-1]	c 26	N87-28647		[NASA-CASE-LEW-15223-1]	c 76	N91-26967		Manned Spacecraft Center, Cape Canaveral, FL.			
Method of preparing fiber reinforced ceramic material				Furnace for tensile/fatigue testing				Electrode for biological recording			
[NASA-CASE-LEW-14392-1]	c 27	N87-28656		[NASA-CASE-LEW-14848-1]	c 14	N91-27175		[NASA-CASE-XMS-02872]	c 05	N69-21925	
Apparatus for mounting a field emission cathode				Method of making carbide/fluoride/silver composites				National Aeronautics and Space Administration.			
[NASA-CASE-LEW-14108-1]	c 33	N87-28832		[NASA-CASE-LEW-14902-1]	c 24	N91-27244		Manned Spacecraft Center, Langley Station, VA.			
Ion-beam nitriding of steels				High-temperature, flexible, thermal barrier seal				Plural recorder system			
[NASA-CASE-LEW-14104-2]	c 26	N88-14179		[NASA-CASE-LEW-14672-1]	c 37	N91-27560		[NASA-CASE-XMS-06949]	c 09	N69-21467	
Thermal stress minimized, two component, turbine shroud seal				Quick action clamp				National Aeronautics and Space Administration.			
[NASA-CASE-LEW-14212-1]	c 37	N88-23978		[NASA-CASE-LEW-14887-1]	c 37	N91-27561		Marshall Space Flight Center, Huntsville, AL.			
Substituted 1,1,1-triaryl-2,2,2-Trifluoroethanes and processes for their synthesis				Thin solar cell and lightweight array				Electrical feed-through connection for printed circuit boards and printed cable			
[NASA-CASE-LEW-14345-1]	c 23	N88-26404		[NASA-CASE-LEW-14959-1]	c 44	N91-27614		[NASA-CASE-XMF-01483]	c 14	N69-27431	
Arcjet power supply and start circuit				Apparatus for intercalating large quantities of fibrous structures				Method for detecting hydrogen gas			
[NASA-CASE-LEW-14374-1]	c 09	N88-28939		[NASA-CASE-LEW-15077-2]	c 24	N91-28289		[NASA-CASE-XMF-03873]	c 06	N69-39733	
Gas particle radiator				Pretreatment of lubricated surfaces with sputtered cadmium oxide				Electrical connector Patent Application			
[NASA-CASE-LEW-14297-1]	c 35	N89-12048		[NASA-CASE-LEW-14474-1]	c 27	N91-28423		[NASA-CASE-MFS-14741]	c 09	N70-20737	
Castable hot corrosion resistant alloy				Low cost, formable, high T(sub c) superconducting wire				Angular measurement system Patent			
[NASA-CASE-LEW-14134-2]	c 26	N89-14303		[NASA-CASE-LEW-14676-1]	c 33	N91-31529		[NASA-CASE-XMF-00447]	c 14	N70-33179	
Light weight polymer matrix composite material				Plug-type heat flux gauge				Insulating structure Patent			
[NASA-CASE-LEW-14734-1]	c 24	N89-23623		[NASA-CASE-LEW-14967-1]	c 35	N91-31608		[NASA-CASE-XMF-00341]	c 15	N70-33323	
Fiber reinforced ceramic material				Spectroscopic wear detector				Space vehicle electrical system Patent			
[NASA-CASE-LEW-14392-2]	c 27	N89-29538		[NASA-CASE-LEW-15200-1]	c 20	N91-32167		[NASA-CASE-XMF-00517]	c 03	N70-34157	
Steam cooled rich-burn combustor liner				Addition polyimides with enhanced processability				Pivotal shock absorbing pad assembly Patent			
[NASA-CASE-LEW-13609-1]	c 25	N90-11824		[NASA-CASE-LEW-15043-1]	c 27	N91-32230		[NASA-CASE-XMF-03856]	c 31	N70-34159	
Method of forming low cost, formable High T(sub c) superconducting wire				Extended temperature range rocket injector				Gimballed, partially submerged rocket nozzle Patent			
[NASA-CASE-LEW-14676-2]	c 76	N90-17454		[NASA-CASE-LEW-14846-1]	c 20	N92-10054		[NASA-CASE-XMF-01544]	c 28	N70-34162	
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures				Brominated graphitized carbon fibers				Recoverable rocket vehicle Patent			
[NASA-CASE-LEW-14346-1]	c 23	N90-19300		[NASA-CASE-LEW-14698-2]	c 27	N92-10090		[NASA-CASE-XMF-00389]	c 31	N70-34176	
Zero-G phase detector and separator				Real-time data compression of broadcast video signals				Electrical discharge apparatus for forming Patent			
[NASA-CASE-LEW-14844-1]	c 35	N90-22024		[NASA-CASE-LEW-14945-2]	c 32	N92-10128		[NASA-CASE-XMF-00375]	c 15	N70-34249	
Miniature traveling wave tube and method of making				Alkali metal carbon dioxide electrochemical system for energy storage and/or conversion of carbon dioxide to oxygen				Optical inspection apparatus Patent			
[NASA-CASE-LEW-14520-1]	c 33	N90-22724		[NASA-CASE-LEW-14973-1]	c 44	N92-10222		[NASA-CASE-XMF-00462]	c 14	N70-34298	
One step HIP canning of powder metallurgy composites				Solid lubricants on pretreated surfaces				Relay binary circuit Patent			
[NASA-CASE-LEW-14719-1]	c 24	N90-23493		[NASA-CASE-LEW-14474-2]	c 27	N92-11186		[NASA-CASE-XMF-00421]	c 09	N70-34502	
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis				Method of intercalating large quantities of fibrous structures				Attitude and propellant flow control system and method Patent			
[NASA-CASE-LEW-14345-2]	c 25	N90-23497		[NASA-CASE-LEW-15077-1]	c 24	N92-16025		[NASA-CASE-XMF-00185]	c 21	N70-34539	
Fatigue testing apparatus				Method of making contamination-free ceramic bodies				Electrical connector for flat cables Patent			
[NASA-CASE-LEW-14124-1]	c 35	N90-23712		[NASA-CASE-LEW-14984-1]	c 27	N92-16122		[NASA-CASE-XMF-00324]	c 09	N70-34596	
High temperature flexible seal				High temperature, flexible pressure-actuated, brush seal				Externally pressurized fluid bearing Patent			
[NASA-CASE-LEW-14695-1]	c 37	N90-23751		[NASA-CASE-LEW-15086-1]	c 37	N92-16318		[NASA-CASE-XMF-00515]	c 15	N70-34664	
Method of making single crystal fibers				Three point lead screw positioning apparatus				Force measuring instrument Patent			
[NASA-CASE-LEW-14921-1]	c 24	N91-13502		[NASA-CASE-LEW-15216-1]	c 37	N92-17678		[NASA-CASE-XMF-00456]	c 14	N70-34705	
Vinyl capped addition polyimides				Intercalated hybrid graphite fiber composite				Seismic displacement transducer Patent			
[NASA-CASE-LEW-15027-1]	c 27	N91-13566		[NASA-CASE-LEW-15241-1]	c 24	N92-17861		[NASA-CASE-XMF-00479]	c 14	N70-34794	
Real-time data compression of broadcast video signals				Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis				Electric arc welding Patent			
[NASA-CASE-LEW-14945-1]	c 32	N91-13598		[NASA-CASE-LEW-14345-6]	c 23	N92-17882		[NASA-CASE-XMF-00392]	c 15	N70-34814	
Heat transfer device and method of making the same				Adjustable depth gage				Assembly for recovering a capsule Patent			
[NASA-CASE-LEW-14162-1]	c 34	N91-13668		[NASA-CASE-LEW-14880-1]	c 35	N92-21723		[NASA-CASE-XMF-00641]	c 31	N70-36410	
Probe insertion apparatus with inflatable seal				Composite thermal barrier coating				Printed cable connector Patent			
[NASA-CASE-LEW-14965-1]	c 37	N91-13732		[NASA-CASE-LEW-14999-1]	c 24	N92-21725		[NASA-CASE-XMF-00369]	c 09	N70-36494	
Universal nondestructive mm-wave integrated circuit test fixture				Selective emitters				Landing pad assembly for aerospace vehicles Patent			
[NASA-CASE-LEW-14746-1]	c 33	N91-14552		[NASA-CASE-LEW-14731-1]	c 44	N92-22037		[NASA-CASE-XMF-02853]	c 31	N70-36654	
Post clamp				Method of producing a plug-type heat flux gauge				Electric arc driven wind tunnel Patent			
[NASA-CASE-LEW-14862-1]	c 37	N91-14617		[NASA-CASE-LEW-14967-2]	c 35	N92-22038		[NASA-CASE-XMF-00411]	c 11	N70-36913	
Graphite fluoride fiber polymer composite material				High temperature, flexible, fiber-preform seal				Gravity device Patent			
[NASA-CASE-LEW-14472-1]	c 24	N91-15320		[NASA-CASE-LEW-15085-1]	c 37	N92-22043		[NASA-CASE-XMF-00424]	c 11	N70-38196	
Ladder polymers for use as high temperature stable resins or coatings				Guanidine based vehicle/binders for use with oxides, metals, and ceramics				Injector for bipropellant rocket engines Patent			
[NASA-CASE-LEW-14203-1]	c 27	N91-15402		[NASA-CASE-LEW-15314-1]	c 27	N92-23461		[NASA-CASE-XMF-00148]	c 28	N70-38710	
Metallic seal for thermal barrier coating systems				Vinyl capped addition polyimides				Electronic motor control system Patent			
[NASA-CASE-LEW-15020-1]	c 27	N91-15412		[NASA-CASE-LEW-15027-2]	c 27	N92-24053		[NASA-CASE-XMF-01129]	c 09	N70-38712	
Liquid sheet radiator apparatus				Self-deploying photovoltaic power system				Slosh suppressing device and method Patent			
[NASA-CASE-LEW-14295-1]	c 31	N91-15424		[NASA-CASE-LEW-15308-1]	c 44	N92-24057		[NASA-CASE-XMF-00658]	c 12	N70-38997	
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis								Air bearing Patent			
[NASA-CASE-LEW-14345-3]	c 23	N91-17141						[NASA-CASE-XMF-00339]	c 15	N70-39896	
Process for HIP canning of composites								Instrument support with precise lateral adjustment Patent			
[NASA-CASE-LEW-14990-1-CU]	c 24	N91-17145						[NASA-CASE-XMF-00480]	c 14	N70-39898	
Fully articulated four-point-bend loading fixture								Segmented back-up bar Patent			
[NASA-CASE-LEW-14776-1]	c 37	N91-21540						[NASA-CASE-XMF-00640]	c 15	N70-39924	
Fiber optic sensing system								Collapsible loop antenna for space vehicle Patent			
[NASA-CASE-LEW-14795-1]	c 74	N91-21871						[NASA-CASE-XMF-00437]	c 07	N70-40202	
								Flexible back-up bar Patent			
								[NASA-CASE-XMF-00722]	c 15	N70-40204	
								Electro-optical alignment control system Patent			
								[NASA-CASE-XMF-00908]	c 14	N70-40238	

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Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566

High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215

Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148

Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151

Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261

Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288

Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262

Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412

Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225

Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495

Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496

Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446

Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377

Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604

Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418

Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466

Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662

Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457

Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267

Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476

Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125

Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460

Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751

Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876

Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377

Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405

Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941

Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078

Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386

Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389

Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476

Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532

Polymerizable disilanol having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030

Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107

Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145

Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437

Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415

Digital computing cardiachometer
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[NASA-CASE-MFS-25302-1] c 33 N83-28319

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Miniature cyclotron resonance ion source using small permanent magnet [NASA-CASE-NPO-14324-1]	c 72	N80-27163	X-ray position detector [NASA-CASE-NPO-12087-1]	c 74	N81-19898	Efficiency of silicon solar cells containing chromium [NASA-CASE-NPO-15179-1]	c 44	N82-26777
Silicone containing solid propellant [NASA-CASE-NPO-14477-1]	c 28	N80-28536	Controller for computer control of brushless dc motors [NASA-CASE-NPO-13970-1]	c 33	N81-20352	Acoustic levitation methods and apparatus [NASA-CASE-NPO-15562-1]	c 71	N82-27086
System for slicing silicon wafers [NASA-CASE-NPO-14406-1]	c 37	N80-29703	Multifunctional transducer [NASA-CASE-NPO-14329-1]	c 52	N81-20703	Thermochemical generation of hydrogen [NASA-CASE-NPO-15015-1]	c 25	N82-28368
Induced junction solar cell and method of fabrication [NASA-CASE-NPO-13786-1]	c 44	N80-29835	Polymeric compositions and their method of manufacture [NASA-CASE-NPO-10424-1]	c 27	N81-24258	Method of forming frozen spheres in a force-free drop tower [NASA-CASE-NPO-14845-1]	c 27	N82-28442
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains [NASA-CASE-NPO-14298-1]	c 76	N80-32244	Low current linearization of magnetic amplifier for dc transducer [NASA-CASE-NPO-14617-1]	c 33	N81-24338	High power metallic halide laser [NASA-CASE-NPO-14782-1]	c 36	N82-28616
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width [NASA-CASE-NPO-14295-1]	c 76	N80-32245	Stark effect spectrophone for continuous absorption spectra monitoring [NASA-CASE-NPO-15102-1]	c 25	N81-25159	Method of Fabricating Schottky Barrier solar cell [NASA-CASE-NPO-13689-4]	c 44	N82-28780
Interferometric locating system [NASA-CASE-NPO-14173-1]	c 04	N80-32359	Multifrequency broadband polarized horn antenna [NASA-CASE-NPO-14588-1]	c 32	N81-25278	Coal desulfurization by aqueous chlorination [NASA-CASE-NPO-14902-1]	c 25	N82-29371
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same [NASA-CASE-NPO-13137-1]	c 27	N80-32514	Hot gas engine with dual crankshafts [NASA-CASE-NPO-14221-1]	c 37	N81-25370	Control means for a solid state crossbar switch [NASA-CASE-NPO-15066-1]	c 33	N82-29538
Prepolymer dianhydrides [NASA-CASE-NPO-13899-1]	c 27	N80-32515	Sandblasting nozzle [NASA-CASE-NPO-13823-1]	c 37	N81-25371	Discriminator aided phase lock acquisition for suppressed carrier signals [NASA-CASE-NPO-14311-1]	c 33	N82-29539
System for plotting subsoil structure and method therefor [NASA-CASE-NPO-14191-1]	c 31	N80-32584	Photomechanical transducer [NASA-CASE-NPO-14363-1]	c 39	N81-25400	Coherently pulsed laser source [NASA-CASE-NPO-15111-1]	c 36	N82-29589
Support assembly for cryogenically coolable low-noise choke waveguide [NASA-CASE-NPO-14253-1]	c 32	N80-32605	Underground mineral extraction [NASA-CASE-NPO-14140-1]	c 43	N81-26509	Solid electrolyte cell [NASA-CASE-NPO-15269-1]	c 44	N82-29710
Apparatus for measuring semiconductor device resistance [NASA-CASE-NPO-14424-1]	c 33	N80-32650	CCD correlated quadruple sampling processor [NASA-CASE-NPO-14426-1]	c 33	N81-27396	Electromigration process for the purification of molten silicon during crystal growth [NASA-CASE-NPO-14831-1]	c 76	N82-30105
Stark cell optoacoustic detection of constituent gases in sample [NASA-CASE-NPO-14143-1]	c 25	N81-14015	Terminal guidance sensor system [NASA-CASE-NPO-14521-1]	c 37	N81-27519	Hyperthermia heating apparatus [NASA-CASE-NPO-14549-2]	c 52	N82-33996
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer [NASA-CASE-NPO-14001-1]	c 27	N81-14076	Medical diagnosis system and method with multispectral imaging [NASA-CASE-NPO-14402-1]	c 52	N81-27783	CAT altitude avoidance system [NASA-CASE-NPO-15351-1]	c 06	N83-10040
Frequency translating phase conjugation circuit for active retrodirective antenna array [NASA-CASE-NPO-14536-1]	c 32	N81-14185	High-speed multiplexing of keyboard data inputs [NASA-CASE-NPO-14554-1]	c 60	N81-27814	Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser [NASA-CASE-NPO-15021-1]	c 36	N83-10417
Precise RIF timing signal distribution to remote stations [NASA-CASE-NPO-14749-1]	c 32	N81-14186	Baseband signal combiner for large aperture antenna array [NASA-CASE-NPO-14641-1]	c 32	N81-29308	Thermal reactor [NASA-CASE-NPO-14369-1]	c 44	N83-10501
Base drive for paralleled inverter systems [NASA-CASE-NPO-14163-1]	c 33	N81-14220	Schottky barrier solar cell [NASA-CASE-NPO-13689-2]	c 44	N81-29525	Enhancement of in vitro guayule propagation [NASA-CASE-NPO-15213-1]	c 51	N83-17045
Low cost cryostat [NASA-CASE-NPO-14513-1]	c 35	N81-14287	Interferometer [NASA-CASE-NPO-14448-1]	c 74	N81-29963	Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar [NASA-CASE-NPO-14998-1]	c 32	N83-18975
Power control for hot gas engines [NASA-CASE-NPO-14220-1]	c 37	N81-14318	Coal desulfurization [NASA-CASE-NPO-14272-1]	c 25	N81-33246	Synchronized voltage contrast display analysis system [NASA-CASE-NPO-14567-1]	c 33	N83-18996
Method and apparatus for fabricating improved solar cell modules [NASA-CASE-NPO-14416-1]	c 44	N81-14389	Method and apparatus for producing concentric hollow spheres [NASA-CASE-NPO-14596-1]	c 31	N81-33319	Broadband optical radiation detector [US-PATENT-4,262,198]	c 74	N83-19597
Viscoelastic cationic polymers containing the urethane linkage [NASA-CASE-NPO-10830-1]	c 27	N81-15104	Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress [NASA-CASE-NPO-14316-1]	c 33	N81-33404	Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent [NASA-CASE-NPO-14857-1]	c 27	N83-19900
Recovery of aluminum from composite propellants [NASA-CASE-NPO-14110-1]	c 28	N81-15119	PN lock indicator for dithered PN code tracking loop [NASA-CASE-NPO-14435-1]	c 33	N81-33405	Thin wire pointing method [NASA-CASE-NPO-15789-1]	c 31	N83-19947
Continuous coal processing method [NASA-CASE-NPO-13758-2]	c 31	N81-15154	Optical gyroscope system [NASA-CASE-NPO-14258-1]	c 35	N81-33448	Clutter free synthetic aperture radar correlator [NASA-CASE-NPO-14035-1]	c 32	N83-19968
Method and apparatus for quadrature-phase-shift-key and linear phase modulation [NASA-CASE-NPO-14444-1]	c 33	N81-15192	Head for high speed spinner having a vacuum chuck [NASA-CASE-NPO-15227-1]	c 37	N81-33482	Controlled in situ etch-back [NASA-CASE-NPO-15625-1]	c 76	N83-20789
			Fluidized bed coal combustion reactor [NASA-CASE-NPO-14273-1]	c 25	N82-11144	Stabilized lanthanum sulphur compounds [NASA-CASE-NPO-16135-1]	c 25	N83-24572
			Scriber for silicon wafers [NASA-CASE-NPO-15539-1]	c 37	N82-11469	Mobile sampler for use in acquiring samples of terrestrial atmospheric gases [NASA-CASE-NPO-15220-1]	c 45	N83-25217
			Sewage sludge additive [NASA-CASE-NPO-13877-1]	c 45	N82-11634	System and method for moving a probe to follow movements of tissue [NASA-CASE-NPO-15197-1]	c 52	N83-25346

Waveguide cooling system			Shaft transducer having dc output proportional to angular velocity			Method for driving two-phase turbines with enhanced efficiency		
[NASA-CASE-NPO-15401-1]	c 32	N83-27085	[NASA-CASE-NPO-15706-1]	c 35	N84-28017	[NASA-CASE-NPO-15037-2]	c 37	N85-29282
Electronic system for high power load control			Centrifugal-reciprocating compressor			Gravity enhanced acoustic levitation method and apparatus		
[NASA-CASE-NPO-15358-1]	c 33	N83-27126	[NASA-CASE-NPO-14597-2]	c 37	N84-28081	[NASA-CASE-NPO-16147-1-CU]	c 71	N85-29693
Particle analyzing method and apparatus			Solar energy modulator			Optical fiber coupling method and apparatus		
[NASA-CASE-NPO-15292-1]	c 35	N83-27184	[NASA-CASE-NPO-15388-1]	c 44	N84-28203	[NASA-CASE-NPO-15464-1]	c 74	N85-29749
Hydrodesulfurization of chlorinized coal			Solar concentrator protective system			Method for growth of crystals by pressure reduction of supercritical or subcritical solution		
[NASA-CASE-NPO-15304-1]	c 25	N83-31743	[NASA-CASE-NPO-15662-1]	c 44	N84-28204	[NASA-CASE-NPO-15772-1]	c 76	N85-29800
Method and apparatus for producing gas-filled hollow spheres			Integrating IR detector imaging systems			Split-cross-bridge resistor for testing for proper fabrication of integrated circuits		
[NASA-CASE-NPO-14596-3]	c 31	N83-31896	[NASA-CASE-NPO-15805-1]	c 74	N84-28590	[NASA-CASE-NPO-16021-1]	c 33	N85-30187
Cycling Joule Thomson refrigerator			Glass heating panels and method for preparing the same from architectural reflective glass			Arrangement for damping the resonance in a laser diode		
[NASA-CASE-NPO-15251-1]	c 31	N83-31897	[NASA-CASE-NPO-15753-1]	c 27	N84-33589	[NASA-CASE-NPO-15980-1]	c 36	N85-30305
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths			Portable reflectance spectrometer			Stable density stratification solar pond		
[NASA-CASE-NPO-14525-2]	c 32	N83-31918	[NASA-CASE-NPO-13556-1]	c 35	N84-33766	[NASA-CASE-NPO-15419-2]	c 44	N85-30474
Method and device for detection of a substance			Means and method for calibrating a photon detector utilizing electron-photon coincidence			Increased voltage photovoltaic cell		
[NASA-CASE-NPO-14940-1]	c 33	N83-31954	[NASA-CASE-NPO-15644-1]	c 35	N84-33767	[NASA-CASE-NPO-16155-1]	c 44	N85-30475
System for monitoring physical characteristics of fluids			Phase sensitive guidance sensor for wire-following vehicles			Acoustic particle separation		
[NASA-CASE-NPO-15400-1]	c 34	N83-31993	[NASA-CASE-NPO-15341-1]	c 35	N84-33769	[NASA-CASE-NPO-15559-1]	c 71	N85-30765
Cloud cover sensor			System for indicating fuel-efficient aircraft altitude			Low defect, high purity crystalline layers grown by selective deposition		
[NASA-CASE-NPO-14936-1]	c 47	N83-32232	[NASA-CASE-NPO-15351-2]	c 06	N84-34443	[NASA-CASE-NPO-15813-1]	c 76	N85-30922
Distributed multiport memory architecture			Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter			Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current		
[NASA-CASE-NPO-15342-1]	c 60	N83-32342	[NASA-CASE-NPO-15519-1]	c 32	N84-34651	[NASA-CASE-NPO-15704-1]	c 32	N85-34327
Acoustic system for material transport			Correlation spectrometer having high resolution and multiplexing capability			Method and apparatus for transfer function simulator for testing complex systems		
[NASA-CASE-NPO-15453-1]	c 71	N83-32515	[NASA-CASE-NPO-15558-1]	c 35	N84-34705	[NASA-CASE-NPO-15696-1]	c 33	N85-34333
System for controlled acoustic rotation of objects			Saltless solar pond			Instrumentation for sensing moisture content of material using a transient thermal pulse		
[NASA-CASE-NPO-15522-1]	c 71	N83-32516	[NASA-CASE-NPO-15808-1]	c 44	N84-34792	[NASA-CASE-NPO-15494-2]	c 35	N85-34373
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers			Epitaxial thinning process			Ranging system which compares an object reflected component of a light beam to a reference component of the light beam		
[NASA-CASE-NPO-14987-1]	c 24	N83-33950	[NASA-CASE-NPO-15786-1]	c 76	N84-35112	[NASA-CASE-NPO-15865-1]	c 74	N85-34629
Antenna grout replacement system			Process and apparatus for growing a crystal ribbon			Shuttle car loading system		
[NASA-CASE-NPO-15202-1]	c 27	N83-34043	[NASA-CASE-NPO-15629-1]	c 76	N84-35113	[NASA-CASE-NPO-15949-1]	c 85	N85-34722
Sphere forming method and apparatus			Multicomputer communication system			Production of butanol by fermentation in the presence of cocultures of clostridium		
[NASA-CASE-NPO-15070-1]	c 31	N83-35176	[NASA-CASE-NPO-15433-1]	c 32	N85-21428	[NASA-CASE-NPO-16203-1]	c 23	N85-35227
Resonant isolator for maser amplifier			Hollow cathode apparatus			Fluidized bed desulfurization		
[NASA-CASE-NPO-15201-1]	c 36	N83-35350	[NASA-CASE-NPO-15560-1]	c 33	N85-21491	[NASA-CASE-NPO-15924-1]	c 25	N85-35253
Acoustic bubble removal method			Method and apparatus for self-calibration and phasing of array antenna			Laser activated MTOS microwave device		
[NASA-CASE-NPO-15334-1]	c 71	N83-35781	[NASA-CASE-NPO-15920-1]	c 33	N85-21493	[NASA-CASE-NPO-16112-1]	c 33	N86-19516
Method of increasing minority carrier lifetime in silicon web or the like			State-of-charge coulometer			Memory metal actuator		
[NASA-CASE-NPO-15530-1]	c 76	N83-35888	[NASA-CASE-NPO-15759-1]	c 35	N85-21596	[NASA-CASE-NPO-15960-1]	c 37	N86-19604
Acoustic suspension system			Carbon granule probe microphone for leak detection			Joint for deployable structures		
[NASA-CASE-NPO-15435-1]	c 71	N83-36846	[NASA-CASE-NPO-16027-1]	c 35	N85-21597	[NASA-CASE-NPO-16038-1]	c 37	N86-19605
Optical fiber tactile sensor			Portable remote laser sensor for methane leak detection			Method and apparatus for contour mapping using synthetic aperture radar		
[NASA-CASE-NPO-15375-1]	c 74	N84-11921	[NASA-CASE-NPO-15790-1]	c 36	N85-21631	[NASA-CASE-NPO-15939-1]	c 43	N86-19711
Photoelectrochemical electrodes			Ingot slicing machine and method			Brushless DC motor control system responsive to control signals generated by a computer or the like		
[NASA-CASE-NPO-15458-1]	c 25	N84-12262	[NASA-CASE-NPO-15483-1]	c 37	N85-21650	[NASA-CASE-NPO-16420-1]	c 33	N86-20681
Method and apparatus for minimizing convection during crystal growth from solution			Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials			Vibrating-chamber levitation systems		
[NASA-CASE-NPO-15811-1]	c 76	N84-12968	[NASA-CASE-NPO-15851-1]	c 37	N85-21652	[NASA-CASE-NPO-16142-1-CU]	c 35	N86-20752
Pressure letdown method and device for coal conversion systems			Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver			Self-locking double retention redundant full pin release		
[NASA-CASE-NPO-15100-1]	c 44	N84-14583	[NASA-CASE-NPO-15651-1]	c 43	N85-21723	[NASA-CASE-NPO-16233-1]	c 37	N86-20801
Supercritical multicomponent solvent coal extraction			Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events			Neighborhood comparison operator		
[NASA-CASE-NPO-15767-1]	c 23	N84-16255	[NASA-CASE-NPO-15430-1]	c 46	N85-21846	[NASA-CASE-NPO-16464-1CU]	c 60	N86-24224
Electrodes for solid state devices			Automatic multi-banking of memory for microprocessors			Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions		
[NASA-CASE-NPO-15161-1]	c 33	N84-16456	[NASA-CASE-NPO-15295-1]	c 60	N85-21992	[NASA-CASE-NPO-16584-1-CU]	c 76	N86-25269
Contactless pellet fabrication			Acoustic agglomeration methods and apparatus			Solar heated oil shale pyrolysis process		
[NASA-CASE-NPO-15592-1]	c 71	N84-16940	[NASA-CASE-NPO-15466-1]	c 71	N85-22104	[NASA-CASE-NPO-16392-1]	c 25	N86-25428
Ion beam accelerator system			High temperature acoustic levitator			Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis		
[NASA-CASE-NPO-15547-1]	c 72	N84-16959	[NASA-CASE-NPO-16022-1]	c 71	N85-22105	[NASA-CASE-NPO-16271-1]	c 35	N86-25753
Apparatus and method for destructive removal of particles contained in flowing fluid			Focal plane array optical proximity sensor			High dynamic global positioning system receiver		
[NASA-CASE-NPO-15426-1]	c 35	N84-17555	[NASA-CASE-NPO-15155-1]	c 74	N85-22139	[NASA-CASE-NPO-16171-1CU]	c 04	N86-27270
Supercritical solvent coal extraction			Optical system			Protective telescoping shield for solar concentrator		
[NASA-CASE-NPO-15210-1]	c 25	N84-22709	[NASA-CASE-NPO-15801-1]	c 74	N85-23396	[NASA-CASE-NPO-16236-1]	c 44	N86-27706
Absorbable-susceptor joining of ceramic surfaces			Corrosion resistant coating			Method of making macrocrystalline or single crystal semiconductor material		
[NASA-CASE-NPO-15640-1]	c 27	N84-22748	[NASA-CASE-NPO-15928-1]	c 26	N85-29005	[NASA-CASE-NPO-15904-1]	c 76	N86-28760
Radiative cooler			Stabilized unsaturated polyesters			Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling		
[NASA-CASE-NPO-15465-1]	c 34	N84-22903	[NASA-CASE-NPO-16103-1]	c 27	N85-29043	[NASA-CASE-NPO-15658-1]	c 26	N86-32551
Method and apparatus for precision control of radiometer			Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer			Fluidic angular velocity sensor		
[NASA-CASE-NPO-15398-1]	c 35	N84-22931	[NASA-CASE-NPO-16257-1]	c 31	N85-29082	[NASA-CASE-NPO-16479-1CU]	c 35	N86-32695
Spectrophone stabilized laser with line center offset frequency control			Retinally stabilized differential resolution television display			Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector		
[NASA-CASE-NPO-15516-1]	c 36	N84-22943	[NASA-CASE-NPO-15432-1]	c 32	N85-29117	[NASA-CASE-NPO-16372-1]	c 72	N86-33127
Oil shale extraction using super-critical extraction			Beam forming network			Compensation for primary reflector wavefront error		
[NASA-CASE-NPO-15656-1]	c 43	N84-23012	[NASA-CASE-NPO-15743-1]	c 32	N85-29118	[NASA-CASE-NPO-16869-1CU]	c 74	N86-33138
Wind and solar powered turbine			Closed loop electrostatic levitation system			Cross-contact chain		
[NASA-CASE-NPO-15496-1]	c 44	N84-23018	[NASA-CASE-NPO-15553-1]	c 33	N85-29142	[NASA-CASE-NPO-16784-1]	c 33	N87-10231
Acoustic rotation control			Maser cavity servo-tuning system			FET charge sensor and voltage probe		
[NASA-CASE-NPO-15689-1]	c 71	N84-23233	[NASA-CASE-NPO-15890-1-CU]	c 33	N85-29143	[NASA-CASE-NPO-16045-1]	c 76	N87-13313
Programmable scan/read circuitry for charge coupled device imaging detectors			Jet pump-drive system for heat removal			Method of examining microcircuit patterns		
[NASA-CASE-NPO-15345-1]	c 74	N84-23247	[NASA-CASE-NPO-16494-1-CU]	c 34	N85-29182	[NASA-CASE-NPO-16299-1]	c 33	N87-14594
Laser pulse detection method and apparatus			Trace water sensor					
[NASA-CASE-NPO-16030-1]	c 36	N84-25037	[NASA-CASE-NPO-15722-1]	c 35	N85-29212			
Low-frequency radio navigation system			Digital control of diode laser for atmospheric spectroscopy					
[NASA-CASE-NPO-15264-1]	c 04	N84-27713	[NASA-CASE-NPO-16000-1]	c 36	N85-29264			
Synthetic aperture radar target simulator								
[NASA-CASE-NPO-15024-1]	c 32	N84-27951						
Ion mass spectrometer								
[NASA-CASE-NPO-15423-1]	c 35	N84-28016						

Active hold-down for heat treating [NASA-CASE-NPO-16892-1-CU]	c 37	N87-14704	Low-loss, high-isolation, fiber-optic isolator [NASA-CASE-NPO-17207-1-CU]	c 74	N88-25304	Edge geometry superconducting tunnel junctions utilizing an NBN/MgO/NbN thin film structure [NASA-CASE-NPO-17812-1-CU]	c 76	N90-17456
Ground plane interference elimination by passive element [NASA-CASE-NPO-16632-1-CU]	c 32	N87-15390	Real-time image difference detection using a polarization rotation spatial light modulator [NASA-CASE-NPO-17144-1-CU]	c 74	N88-25305	High density tape casting system [NASA-CASE-NPO-16901-1-CU]	c 31	N90-19425
Large TV display system [NASA-CASE-NPO-16932-1-CU]	c 33	N87-15413	Data volume reduction for imaging radar polarimetry [NASA-CASE-NPO-17184-1-CU]	c 32	N88-26541	Local area network with fault-checking, priorities, and redundant backup [NASA-CASE-NPO-16949-1-CU]	c 62	N90-19776
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask [NASA-CASE-NPO-15813-2]	c 76	N87-15882	Low noise cryogenic dielectric resonator oscillator [NASA-CASE-NPO-17157-1-CU]	c 33	N88-26596	Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency [NASA-CASE-NPO-17259-1-CU]	c 76	N90-19884
Tank tread assemblies with track-linking mechanism [NASA-CASE-NPO-16321-1-CU]	c 37	N87-17034	Method for Viterbi decoding of large constraint length convolutional codes [NASA-CASE-NPO-17310-1-CU]	c 17	N88-28946	Dual cathode system for electron beam instruments [NASA-CASE-NPO-16878-1-CU]	c 35	N90-20351
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells [NASA-CASE-NPO-16526-1-CU]	c 44	N87-17399	Digital phase-lock loop having an estimator and predictor of error [NASA-CASE-NPO-17196-1-CU]	c 32	N88-29076	VLSI single-chip (255,223) Reed-Solomon encoder with interleaver [NASA-CASE-NPO-17280-1-CU]	c 17	N90-21061
Ten degree Kelvin hydride refrigerator [NASA-CASE-NPO-16393-1-CU]	c 31	N87-21159	Power supply conditioning circuit [NASA-CASE-NPO-17233-1-CU]	c 33	N88-29095	Acoustic convective system [NASA-CASE-NPO-17278-1-CU]	c 31	N90-21215
Synchronization tracking in pulse position modulation receiver [NASA-CASE-NPO-16256-1]	c 32	N87-21207	Thermocouple for heating and cooling of memory metal actuators [NASA-CASE-NPO-17068-1-CU]	c 35	N88-29151	Alternating gradient photodetector [NASA-CASE-NPO-17235-1-CU]	c 35	N90-21358
Low noise lead screw positioner [NASA-CASE-NPO-15617-1]	c 35	N87-21304	Nanosequencer digital logic controller [NASA-CASE-NPO-16116-2]	c 60	N88-29310	VLSI binary updown counter [NASA-CASE-NPO-17205-1-CU]	c 60	N90-21525
Method for forming hermetic seals [NASA-CASE-NPO-16423-1-CU]	c 37	N87-21334	Self-actuating heat switches for redundant refrigeration systems [NASA-CASE-NPO-17085-1-CU]	c 31	N89-12785	Fault tolerant hypercube computer system architecture [NASA-CASE-NPO-16859-1-CU]	c 60	N90-21527
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[NASA-CASE-GSC-11560-1] c 33 N74-20861

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[NASA-CASE-NPO-10998-1] c 06 N73-32029

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[NASA-CASE-MFS-19193-1] c 37 N75-19686

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[NASA-CASE-MS-C-18934-3] c 24 N82-26387

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[NASA-CASE-MS-C-18532-1] c 32 N82-27558

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[NASA-CASE-XNP-02888] c 18 N71-21068

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[NASA-CASE-XGS-05441] c 10 N71-22962

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[NASA-CASE-MFS-22283-1] c 37 N75-33395

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[NASA-CASE-MFS-22707-1] c 37 N76-15457

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[NASA-CASE-NPO-10234] c 06 N72-17094

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[NASA-CASE-ARC-10192] c 09 N72-21245

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[NASA-CASE-HQN-10439] c 21 N72-21624

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[NASA-CASE-HQN-10844-1] c 36 N75-19653

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[NASA-CASE-HQN-10069] c 33 N75-27251

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[NASA-CASE-ARC-11051-1] c 27 N78-32260

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[NASA-CASE-ARC-11169-1] c 24 N79-24062

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[NASA-CASE-ARC-11052-1] c 37 N79-28551

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[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

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[NASA-CASE-XGS-04047-2] c 03 N72-11062
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[NASA-CASE-MSC-12607-1] c 32 N75-21485
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[NASA-CASE-LAR-10907-1] c 35 N76-29551
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[NASA-CASE-KSC-10728-1] c 14 N73-32319
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[NASA-CASE-MFS-20586] c 15 N71-17686
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[NASA-CASE-LEW-12991-1] c 37 N81-24442
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[NASA-CASE-MSC-13407-1] c 10 N72-20225
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[NASA-CASE-MFS-20774] c 14 N73-19420
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[NASA-CASE-LAR-10670-1] c 06 N73-30097
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[NASA-CASE-LAR-10670-2] c 15 N74-27360
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[NASA-CASE-MFS-23315-1] c 76 N78-24950
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[NASA-CASE-GSC-10835-1] c 09 N72-33205
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[NASA-CASE-NPO-14424-1] c 33 N80-32650
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[NASA-CASE-MSC-14339-1] c 05 N75-24716
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[NASA-CASE-LAR-11995-1] c 28 N77-10213
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[NASA-CASE-NPO-14110-1] c 28 N81-15119
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[NASA-CASE-WOO-00428-1] c 32 N79-19186
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[NASA-CASE-LAR-12268-1] c 08 N81-24106
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[NASA-CASE-MFS-21629] c 14 N72-22442
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[NASA-CASE-MSC-20080-1] c 37 N85-30334
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[NASA-CASE-XGS-08269] c 23 N71-26206
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[NASA-CASE-NPO-12127-1] c 91 N74-13130
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[NASA-CASE-LAR-11726-1] c 37 N76-27568
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[NASA-CASE-XNP-01458] c 04 N78-17031
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[NASA-CASE-ARC-10199] c 34 N78-17337
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[NASA-CASE-MSC-11242] c 35 N78-17358
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[NASA-CASE-MFS-22597] c 36 N78-17366
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[NASA-CASE-NPO-10151] c 37 N78-17386
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[NASA-CASE-XGS-00829-1] c 44 N79-19447
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[NASA-CASE-GSC-12194-2] c 20 N82-18314
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[NASA-CASE-NPO-10416] c 12 N71-27332
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[NASA-CASE-MSC-11847-1] c 14 N72-11363
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[NASA-CASE-NPO-11018] c 08 N72-21200
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[NASA-CASE-NPO-12072] c 28 N72-22772
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[NASA-CASE-NPO-11078] c 09 N72-25262
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[NASA-CASE-NPO-13360-1] c 37 N75-25185
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[NASA-CASE-LAR-11549-1] c 37 N77-11397
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[NASA-CASE-XMF-00580] c 11 N70-35383
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[NASA-CASE-XMS-06236] c 14 N71-21007
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[NASA-CASE-XMS-09635] c 05 N71-24623
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[NASA-CASE-XMS-09637-1] c 05 N71-24730
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[NASA-CASE-MFS-20831] c 28 N71-29153
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[NASA-CASE-MSC-12397-1] c 05 N72-25119
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[NASA-CASE-MSC-13054] c 54 N78-17677
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[NASA-CASE-XMS-04670] c 54 N78-17678
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[NASA-CASE-XMS-04928] c 54 N78-17679
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[NASA-CASE-XMS-09653] c 54 N78-17680
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[NASA-CASE-MSC-10954-1] c 54 N78-18761
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[NASA-CASE-HQN-00573-1] c 37 N79-33468
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[NASA-CASE-XMS-03694-1] c 54 N82-29002
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[NASA-CASE-HQN-10274-1] c 27 N82-29451
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[NASA-CASE-HQN-10931-2] c 27 N82-29452
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[NASA-CASE-HQN-10328-2] c 27 N82-29454
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[NASA-CASE-LAR-10900-1] c 37 N74-23064
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[NASA-CASE-LAR-11797-1] c 05 N81-19087
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[NASA-CASE-LAR-11855-1] c 37 N81-14319
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[NASA-CASE-MFS-21462-1] c 33 N74-14935
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[NASA-CASE-XMS-13052] c 14 N71-20427
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[NASA-CASE-MSC-12398] c 05 N72-20098
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[NASA-CASE-MSC-18107-1] c 27 N81-25209
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[NASA-CASE-XMF-06884-1] c 20 N79-21123
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[NASA-CASE-XMF-05964-1] c 20 N79-21124
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[NASA-CASE-XMF-04592-1] c 20 N79-21125
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[NASA-CASE-MFS-23646-1] c 37 N79-22474
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[NASA-CASE-MSC-16182-1] c 54 N80-10799
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[NASA-CASE-HQN-10595-1] c 27 N82-29455
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[NASA-CASE-LAR-13028-1] c 52 N85-30618

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[NASA-CASE-LAR-12838-1] c 27 N83-34040

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[NASA-CASE-LAR-12723-2] c 27 N84-22746

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[NASA-CASE-LAR-12967-1] c 35 N84-22932

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[NASA-CASE-XGS-05211] c 07 N69-39980

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[NASA-CASE-GSC-12324-1] c 33 N81-33403

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[NASA-CASE-XMS-02087] c 09 N70-41717

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[NASA-CASE-XLE-09475-1] c 33 N71-15568

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Patent
[NASA-CASE-XGS-04993] c 14 N71-17574

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[NASA-CASE-XMS-01991] c 09 N71-21449

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[NASA-CASE-XGS-03230] c 14 N71-23401

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[NASA-CASE-XGS-01537] c 07 N71-23405

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[NASA-CASE-XNP-05382] c 10 N71-23544

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[NASA-CASE-GSC-10556-1] c 31 N71-26537

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[NASA-CASE-XMS-03542] c 09 N71-28926

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[NASA-CASE-XHQ-03673] c 33 N71-29046

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[NASA-CASE-NPO-10753] c 03 N72-26031

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[NASA-CASE-MFS-20809] c 23 N73-13660

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[NASA-CASE-NUC-10107-1] c 33 N74-17930

Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552

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[NASA-CASE-GSC-11446-1] c 33 N74-20860

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[NASA-CASE-LEW-10698-1] c 37 N74-21063

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[NASA-CASE-GSC-11617-1] c 33 N74-32660

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[NASA-CASE-NPO-13391-1] c 34 N76-27515

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[NASA-CASE-GSC-12010-1] c 74 N78-18905

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[NASA-CASE-MFS-10506] c 06 N73-30100

Fluorohydroxy ethers
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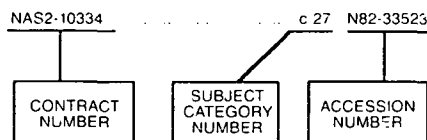
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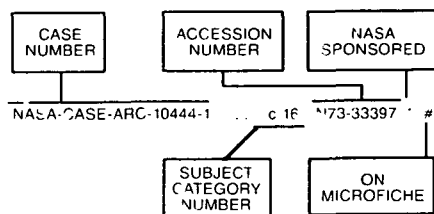
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INT-PATENT-CLASS-G01N-21/64	c 76	N90-24150 *	INT-PATENT-CLASS-H01L-31/42	c 44	N91-27614 *	NAS 1.71:LAR-13519-1	c 35	N88-23963 *	#
INT-PATENT-CLASS-G01N-21/84	c 76	N90-24150 *	INT-PATENT-CLASS-H01L-37/00	c 44	N92-16457 *	NAS 1.71:LAR-13548-1	c 09	N91-28175 *	#
INT-PATENT-CLASS-G01N-23/20	c 74	N91-14835 *	INT-PATENT-CLASS-H01L-39/22	c 76	N92-22041 *	NAS 1.71:LAR-13555-1	c 23	N86-32526 *	#
INT-PATENT-CLASS-G01N-25/50	c 25	N91-32196 *	INT-PATENT-CLASS-H01L-41/08	c 71	N91-14808 *	NAS 1.71:LAR-13563-1	c 34	N91-23410 *	#
INT-PATENT-CLASS-G01N-27/26	c 25	N92-28728 *	INT-PATENT-CLASS-H01L-41/08	c 76	N91-14872 *	NAS 1.71:LAR-13586-1	c 16	N92-10035 *	#
INT-PATENT-CLASS-G01N-27/72	c 27	N90-23544 *	INT-PATENT-CLASS-H01L-43/00	c 33	N91-14537 *	NAS 1.71:LAR-13632-1	c 26	N87-29650 *	#
INT-PATENT-CLASS-G01N-27/72	c 70	N92-29130 *	INT-PATENT-CLASS-H01M-10/40	c 33	N92-28753 *	NAS 1.71:LAR-13633-1	c 27	N87-24575 *	#
INT-PATENT-CLASS-G01N-27/80	c 39	N92-28757 *	INT-PATENT-CLASS-H01M-4/04	c 33	N91-27478 *	NAS 1.71:LAR-13645-1	c 27	N91-28424 *	#
INT-PATENT-CLASS-G01N-3/00	c 24	N91-14430 *	INT-PATENT-CLASS-H01M-4/58	c 33	N91-27478 *	NAS 1.71:LAR-13689-1	c 35	N87-23941 *	#
INT-PATENT-CLASS-G01N-3/08	c 14	N91-27175 *	INT-PATENT-CLASS-H01M-6/20	c 33	N91-14538 *	NAS 1.71:LAR-13705-1	c 39	N88-25011 *	#
INT-PATENT-CLASS-G01N-3/20	c 37	N91-21540 *	INT-PATENT-CLASS-H01N-1/26	c 34	N92-16243 *	NAS 1.71:LAR-13719-1	c 37	N89-12867 *	#
INT-PATENT-CLASS-G01N-3/32	c 35	N90-23712 *	INT-PATENT-CLASS-H01N-17/00	c 34	N92-16243 *	NAS 1.71:LAR-13738-1	c 18	N87-29586 *	#
INT-PATENT-CLASS-G01N-31/12	c 09	N91-21157 *	INT-PATENT-CLASS-H01P-1/18	c 74	N92-28571 *	NAS 1.71:LAR-13805-1	c 37	N92-30097 *	#
INT-PATENT-CLASS-G01P-3/36	c 36	N90-25340 *	INT-PATENT-CLASS-H01S-3/098	c 36	N91-17360 *	NAS 1.71:LAR-13823-1	c 35	N92-10182 *	#
INT-PATENT-CLASS-G01P-3/36	c 02	N92-34172 *	INT-PATENT-CLASS-H01S-3/10	c 36	N92-31788 *	NAS 1.71:LAR-13832-1	c 28	N91-28444 *	#
INT-PATENT-CLASS-G01R-1/04	c 33	N91-14552 *	INT-PATENT-CLASS-H01S-3/16	c 36	N91-15528 *	NAS 1.71:LAR-13889-1	c 39	N88-30160 *	#
INT-PATENT-CLASS-G01R-23/16	c 32	N92-29124 *	INT-PATENT-CLASS-H01S-3/22	c 25	N91-21270 *	NAS 1.71:LAR-13944-1	c 35	N92-11336 *	#
INT-PATENT-CLASS-G01R-27/00	c 27	N90-23544 *	INT-PATENT-CLASS-H02K-1/14	c 37	N92-29099 *	NAS 1.71:LAR-13950-1	c 60	N92-30541 *	#
INT-PATENT-CLASS-G01R-27/72	c 39	N92-29101 *	INT-PATENT-CLASS-H02K-41/00	c 37	N91-21539 *	NAS 1.71:LAR-13988-1	c 23	N89-11814 *	#
INT-PATENT-CLASS-G01R-33/12	c 27	N90-23544 *	INT-PATENT-CLASS-H02K-44/10	c 27	N91-14489 *	NAS 1.71:LAR-13996-1-SB	c 25	N90-15161 *	#
INT-PATENT-CLASS-G01R-33/12	c 39	N92-28757 *	INT-PATENT-CLASS-H02K-7/09	c 70	N91-21824 *	NAS 1.71:LAR-14033-2	c 34	N92-30024 *	#
INT-PATENT-CLASS-G01R-33/12	c 39	N92-29101 *	INT-PATENT-CLASS-H02L-9/04	c 60	N90-25583 *	NAS 1.71:LAR-14036-1	c 27	N91-13562 *	#
INT-PATENT-CLASS-G01R-35/00	c 38	N92-29154 *	INT-PATENT-CLASS-H02N-1/08	c 33	N92-22042 *	NAS 1.71:LAR-14046-1	c 31	N92-11219 *	#
INT-PATENT-CLASS-G01S-13/86	c 43	N91-21621 *	INT-PATENT-CLASS-H03B-5/12	c 33	N90-23635 *	NAS 1.71:LAR-14048-1	c 31	N92-11220 *	#
INT-PATENT-CLASS-G01S-13/89	c 43	N91-21621 *	INT-PATENT-CLASS-H03D-1/00	c 33	N91-14550 *	NAS 1.71:LAR-14049-1	c 07	N89-23466 *	#
INT-PATENT-CLASS-G01S-13/89	c 43	N91-32546 *	INT-PATENT-CLASS-H03D-1/04	c 33	N91-26438 *	NAS 1.71:LAR-14078-1-CU	c 34	N90-27071 *	#
INT-PATENT-CLASS-G01S-13/90	c 43	N91-14642 *	INT-PATENT-CLASS-H03D-1/06	c 32	N92-21712 *	NAS 1.71:LAR-14142-1	c 37	N90-27116 *	#
INT-PATENT-CLASS-G01S-5/02	c 04	N91-14321 *	INT-PATENT-CLASS-H03M-13/00	c 60	N91-31810 *	NAS 1.71:LAR-14156-1	c 16	N90-16781 *	#
INT-PATENT-CLASS-G01W-1/00	c 19	N91-14412 *	INT-PATENT-CLASS-H04B-1/10	c 32	N91-25316 *	NAS 1.71:LAR-14162-1	c 37	N90-15259 *	#
INT-PATENT-CLASS-G02B-1/01	c 74	N92-16808 *	INT-PATENT-CLASS-H04B-10/00	c 74	N91-27957 *	NAS 1.71:LAR-14169-1	c 27	N92-17677 *	#
INT-PATENT-CLASS-G02B-1/12	c 74	N92-16808 *	INT-PATENT-CLASS-H04J-3/02	c 62	N91-14772 *	NAS 1.71:LAR-14194-1	c 24	N90-15148 *	#
INT-PATENT-CLASS-G02B-21/26	c 37	N91-21545 *	INT-PATENT-CLASS-H04K-3/00	c 33	N91-31530 *	NAS 1.71:LAR-14198-1	c 27	N90-26956 *	#
INT-PATENT-CLASS-G02B-21/32	c 37	N91-21545 *	INT-PATENT-CLASS-H04L-27/18	c 32	N91-14523 *	NAS 1.71:LAR-14203-1	c 36	N89-28817 *	#
INT-PATENT-CLASS-G02B-23/00	c 35	N91-14591 *	INT-PATENT-CLASS-H04L-27/18	c 32	N91-25318 *	NAS 1.71:LAR-14206-1	c 27	N91-28425 *	#
INT-PATENT-CLASS-G02B-23/00	c 74	N92-16810 *	INT-PATENT-CLASS-H04L-27/22	c 32	N91-27439 *	NAS 1.71:LAR-14219-1	c 08	N92-30025 *	#
INT-PATENT-CLASS-G02B-26/02	c 37	N92-29151 *	INT-PATENT-CLASS-H04N-13/00	c 74	N92-16809 *	NAS 1.71:LAR-14232-1	c 09	N92-34213 *	#
INT-PATENT-CLASS-G02B-27/28	c 36	N92-16290 *	INT-PATENT-CLASS-H04N-5/262	c 60	N92-16563 *	NAS 1.71:LAR-14239-1	c 26	N91-13527 *	#
INT-PATENT-CLASS-G02B-27/42	c 74	N92-33022 *	INT-PATENT-CLASS-H04N-7/13	c 32	N92-10128 *	NAS 1.71:LAR-14271-1-CU	c 27	N91-13558 *	#
INT-PATENT-CLASS-G02B-27/64	c 35	N91-14590 *	INT-PATENT-CLASS-H04N-7/18	c 35	N90-22770 *	NAS 1.71:LAR-14272-1-CU	c 14	N91-28184 *	#
INT-PATENT-CLASS-G02B-27/64	c 74	N92-16811 *	INT-PATENT-CLASS-H04R-15/00	c 33	N92-15331 *	NAS 1.71:LAR-14330-1-CU	c 27	N91-13560 *	#
INT-PATENT-CLASS-G02B-3/00	c 74	N92-16810 *	INT-PATENT-CLASS-H04R-25/00	c 35	N91-27522 *	NAS 1.71:LAR-14338-1	c 24	N90-26881 *	#
INT-PATENT-CLASS-G02B-5/122	c 18	N91-27200 *	INT-PATENT-CLASS-H05B-33/00	c 74	N91-14835 *	NAS 1.71:LAR-14339-1	c 27	N90-26955 *	#
INT-PATENT-CLASS-G02B-5/23	c 74	N92-16808 *	INT-PATENT-CLASS-H05B-33/14	c 76	N91-21911 *	NAS 1.71:LAR-14361-1	c 71	N91-16707 *	#
INT-PATENT-CLASS-G02B-6/02	c 74	N91-21871 *	INT-PATENT-CLASS-H05B-33/14	c 74	N91-31950 *	NAS 1.71:LAR-14395-1-CU	c 33	N91-28490 *	#
INT-PATENT-CLASS-G02B-8/16	c 74	N91-21871 *	INT-PATENT-CLASS-H07M-10/39	c 33	N91-14536 *	NAS 1.71:LAR-14398-1	c 25	N92-30098 *	#
INT-PATENT-CLASS-G02B-7/02	c 74	N92-16811 *	INT-PATENT-CLASS-H07M-4/60	c 33	N91-14536 *	NAS 1.71:LAR-14418-1	c 32	N92-31257 *	#
INT-PATENT-CLASS-G02B-7/18	c 35	N91-14590 *				NAS 1.71:LAR-14424-1-SB	c 09	N91-32149 *	#
INT-PATENT-CLASS-G02F-1/01	c 74	N92-29117 *	NAS 1.15:76884	c 24	N85-25436 *	NAS 1.71:LAR-14440-1	c 23	N92-10066 *	#
INT-PATENT-CLASS-G03B-1/16	c 74	N92-33022 *	NAS 1.71:ARC-11349-1	c 37	N86-20797 *	NAS 1.71:LAR-14457-1-CU	c 27	N92-11198 *	#
INT-PATENT-CLASS-G03B-1/02	c 35	N91-13694 *	NAS 1.71:ARC-11368-2	c 27	N85-21347 *	NAS 1.71:LAR-14459-1	c 24	N91-15334 *	#
INT-PATENT-CLASS-G05B-19/24	c 63	N91-31885 *	NAS 1.71:ARC-11423-1	c 03	N84-33394 *	NAS 1.71:LAR-14480-1-CU	c 39	N92-11374 *	#
INT-PATENT-CLASS-G05B-19/42	c 33	N91-31528 *	NAS 1.71:ARC-11510-1	c 35	N86-32697 *	NAS 1.71:LAR-14483-1	c 31	N91-28455 *	#
INT-PATENT-CLASS-G05B-19/42	c 63	N92-33019 *	NAS 1.71:ARC-11641-1	c 24	N88-18628 *	NAS 1.71:LAR-14487-1	c 27	N92-11200 *	#
INT-PATENT-CLASS-G05F-1/12	c 33	N91-27479 *	NAS 1.71:ARC-11652-1	c 27	N87-23737 *	NAS 1.71:LAR-14508-1-CU	c 39	N92-10202 *	#
INT-PATENT-CLASS-G05G-9/00	c 33	N92-29153 *	NAS 1.71:ARC-11917-1	c 35	N91-15520 *	NAS 1.71:LAR-14520-1-SB	c 02	N92-10008 *	#
INT-PATENT-CLASS-G06F-1/02	c 33	N90-23636 *	NAS 1.71:ARC-11921-1	c 34	N92-11286 *	NAS 1.71:LAR-14538-1	c 27	N92-11201 *	#
INT-PATENT-CLASS-G06F-11/10	c 33	N92-33011 *	NAS 1.71:GSC-12558-1	c 36	N85-21639 *	NAS 1.71:LAR-14542-1	c 37	N92-11354 *	#
INT-PATENT-CLASS-G06F-12/00	c 62	N91-25693 *	NAS 1.71:GSC-12582-2	c 37	N85-20337 *	NAS 1.71:LAR-14547-1	c 34	N92-17909 *	#
INT-PATENT-CLASS-G06F-15/00	c 37	N92-22036 *	NAS 1.71:GSC-12682-1	c 35	N84-33765 *	NAS 1.71:LAR-14556-1	c 36	N91-25392 *	#
INT-PATENT-CLASS-G06F-15/16	c 62	N91-14769 *	NAS 1.71:GSC-12789-1	c 35	N85-20294 *	NAS 1.71:LAR-14559-1	c 38	N92-29829 *	#
INT-PATENT-CLASS-G06F-15/18	c 61	N91-14741 *	NAS 1.71:GSC-12799-1	c 31	N85-21404 *	NAS 1.71:LAR-14565-1-CU	c 37	N92-34212 *	#
INT-PATENT-CLASS-G06F-15/20	c 17	N91-14371 *	NAS 1.71:GSC-12808-1	c 25	N85-21279 *	NAS 1.71:LAR-14568-1	c 74	N92-30312 *	#
INT-PATENT-CLASS-G06F-15/20	c 32	N91-25317 *	NAS 1.71:GSC-12944-1	c 52	N86-19885 *	NAS 1.71:LAR-14607-1-SB	c 74	N92-30029 *	#
INT-PATENT-CLASS-G06F-15/20	c 62	N92-15620 *	NAS 1.71:GSC-13141-1	c 37	N92-23548 *	NAS 1.71:LAR-14608-1	c 27	N92-17676 *	#
INT-PATENT-CLASS-G06F-15/46	c 63	N91-31885 *	NAS 1.71:GSC-13265-1	c 76	N91-14066 *	NAS 1.71:LAR-14612-1	c 34	N92-29954 *	#
INT-PATENT-CLASS-G06F-15/50	c 04	N91-31120 *	NAS 1.71:GSC-13343-1	c 36	N91-28557 *	NAS 1.71:LAR-14626-1	c 38	N92-17859 *	#
INT-PATENT-CLASS-G06F-9/46	c 62	N91-14769 *	NAS 1.71:GSC-13348-2	c 52	N91-29714 *	NAS 1.71:LAR-14639-1	c 27	N92-11199 *	#
INT-PATENT-CLASS-G06G-7/12	c 62	N91-32852 *	NAS 1.71:GSC-13356-1	c 37	N92-24243 *	NAS 1.71:LAR-14643-1	c 27	N92-29953 *	#
INT-PATENT-CLASS-G06G-7/12	c 32	N92-22033 *	NAS 1.71:GSC-13358-1	c 37	N92-24058 *	NAS 1.71:LAR-14651-1	c 82	N92-30386 *	#
INT-PATENT-CLASS-G06G-7/48	c 62	N92-15620 *	NAS 1.71:GSC-13359-1	c 37	N92-23378 *	NAS 1.71:LAR-14654-1	c 39	N92-30317 *	#
INT-PATENT-CLASS-G06K-9/00	c 54	N92-29129 *	NAS 1.71:GSC-13360-1	c 37	N92-23377 *	NAS 1.71:LAR-14682-1	c 34	N92-30387 *	#
INT-PATENT-CLASS-G08B-21/00	c 37	N91-14607 *	NAS 1.71:GSC-13377-1	c 63	N91-28785 *	NAS 1.71:LAR-14698-1	c 39	N92-30028 *	#
INT-PATENT-CLASS-G11B-17/22	c 60	N92-29132 *	NAS 1.71:GSC-13408-1	c 18	N92-24244 *	NAS 1.71:LAR-14724-1	c 35	N92-30030 *	#
INT-PATENT-CLASS-G11B-3/74	c 60	N92-29132 *	NAS 1.71:GSC-13422-1	c 33	N92-23462 *	NAS 1.71:LAR-14741-1	c 39	N92-11384 *	#
INT-PATENT-CLASS-G11B-5/09	c 60	N92-29132 *	NAS 1.71:GSC-13442-1	c 37	N92-23547 *	NAS 1.71:LAR-14753-1	c 27	N92-30313 *	#
INT-PATENT-CLASS-G11C-29/00	c 60	N91-31810 *	NAS 1.71:GSC-13450-1	c 44	N92-23463 *	NAS 1.71:LAR-14763-1	c 27	N92-12121 *	#
INT-PATENT-CLASS-G21K-7/00	c 35	N92-29135 *	NAS 1.71:GSC-13451-1	c 39	N92-23549 *	NAS 1.71:LAR-14773-1	c 27	N92-10105 *	#
INT-PATENT-CLASS-G21K-7/00	c 89	N92-33012 *	NAS 1.71:KSC-11218-1	c 09	N85-19990 *	NAS 1.71:LAR-14775-1	c 39	N92-30099 *	#
			NAS 1.71:ARC-12588-1	c 34	N85-21568 *	NAS 1.71:LAR-14779-1	c 74	N92-29951 *	#
INT-PATENT-CLASS-H01B-1/00	c 27	N92-16121 *	NAS 1.71:ARC-12723-1	c 27	N85-20123 *	NAS 1.71:LAR-14789-1	c 37	N92-30388 *	#
INT-PATENT-CLASS-H01B-1/06	c 24	N91-15320 *	NAS 1.71:ARC-12775-2	c 27	N85-21349 *	NAS 1.71:LAR-14811-1	c 33	N92-30389 *	#
INT-PATENT-CLASS-H01C-31/58	c 44	N92-22037 *	NAS 1.71:ARC-12787-2	c 08	N85-19985 *	NAS 1.71:LAR-14815-1-CU	c 34	N92-29830 *	#
INT-PATENT-CLASS-H01F-27/30	c 33	N91-14539 *	NAS 1.71:ARC-12858-2	c 27	N85-20124 *	NAS 1.71:LAR-14824-1-SB	c 34	N92-30390 *	#
INT-PATENT-CLASS-H01J-25/34	c 33	N90-22724 *	NAS 1.71:ARC-12868-1	c 37	N85-21651 *	NAS 1.71:LAR-14954-1	c 24	N92-34214 *	#
INT-PATENT-CLASS-H01J-31/14</									

NAS 1.71:LEW-13770-3	c 27	N85-21350 *	NAS 1.71:MSC-21082-1	c 27	N87-29672 *	NAS 1.71:NPO-17399-1-CU	c 76	N89-14120 *
NAS 1.71:LEW-13770-4	c 27	N85-21351 *	NAS 1.71:MSC-21094-1	c 35	N88-24941 *	NAS 1.71:NPO-17479-1-CU	c 34	N91-13658 *
NAS 1.71:LEW-13770-5	c 27	N85-21352 *	NAS 1.71:MSC-21095-1	c 37	N89-12866 *	NAS 1.71:NPO-17524-1-CU	c 27	N90-10261 *
NAS 1.71:LEW-13827-1	c 44	N85-21768 *	NAS 1.71:MSC-21171-1	c 37	N88-23973 *	NAS 1.71:NPO-17548-1-CU	c 32	N90-16104 *
NAS 1.71:LEW-13833-1	c 33	N85-21492 *	NAS 1.71:MSC-21299-1	c 20	N88-24684 *	NAS 1.71:NPO-17596-1-CU	c 35	N89-28795 *
NAS 1.71:LEW-13837-2	c 24	N85-21267 *	NAS 1.71:MSC-21327-1	c 18	N90-11798 *	NAS 1.71:NPO-17621-1-CU	c 33	N90-17010 *
NAS 1.71:LEW-13881-1	c 20	N85-21256 *	NAS 1.71:MSC-21330-1	c 16	N88-24660 *	NAS 1.71:NPO-17629-1-CU	c 60	N90-27268 *
NAS 1.71:LEW-14080-1	c 31	N85-20153 *	NAS 1.71:MSC-21354-1	c 37	N88-24969 *	NAS 1.71:NPO-17630-1-CU	c 31	N89-29577 *
NAS 1.71:LEW-14127-1	c 33	N86-20680 *	NAS 1.71:MSC-21364-1	c 54	N89-13889 *	NAS 1.71:NPO-17632-1-CU	c 60	N91-32805 *
NAS 1.71:LEW-14162-1	c 34	N91-13668 *	NAS 1.71:MSC-21372-1	c 35	N89-12842 *	NAS 1.71:NPO-17653-1-CU	c 51	N90-27239 *
NAS 1.71:LEW-14162-3	c 24	N92-34208 *	NAS 1.71:MSC-21379-1-SB	c 61	N90-27340 *	NAS 1.71:NPO-17723-1-CU	c 76	N90-26685 *
NAS 1.71:LEW-14345-6	c 23	N92-17882 *	NAS 1.71:MSC-21381-1	c 63	N91-13944 *	NAS 1.71:NPO-17734-1-CU	c 33	N92-10146 *
NAS 1.71:LEW-14474-1	c 27	N91-28423 *	NAS 1.71:MSC-21387-1	c 61	N90-16411 *	NAS 1.71:NPO-17763-1-CU	c 36	N92-17862 *
NAS 1.71:LEW-14474-2	c 27	N92-11186 *	NAS 1.71:MSC-21415-1-SB	c 61	N92-17860 *	NAS 1.71:NPO-17781-1-CU	c 60	N92-17884 *
NAS 1.71:LEW-14676-2	c 76	N90-17454 *	NAS 1.71:MSC-21460-1	c 54	N91-13879 *	NAS 1.71:NPO-17784-1-CU	c 74	N91-13998 *
NAS 1.71:LEW-14734-1	c 24	N89-23623 *	NAS 1.71:MSC-21481-1	c 60	N91-13890 *	NAS 1.71:NPO-17785-1-CU	c 37	N89-28846 *
NAS 1.71:LEW-14791-1	c 02	N92-34243 *	NAS 1.71:MSC-21529-1	c 27	N92-30100 *	NAS 1.71:NPO-17786-1-CU	c 35	N90-17104 *
NAS 1.71:LEW-14921-1	c 24	N91-13502 *	NAS 1.71:MSC-21555-1	c 37	N91-23492 *	NAS 1.71:NPO-17794-1-CU	c 74	N92-30104 *
NAS 1.71:LEW-14945-1	c 32	N91-13598 *	NAS 1.71:MSC-21577-1-SB	c 25	N91-23271 *	NAS 1.71:NPO-17807-2-CU	c 63	N92-29555 *
NAS 1.71:LEW-14965-1	c 37	N91-13732 *	NAS 1.71:MSC-21613-1	c 61	N92-10331 *	NAS 1.71:NPO-17812-1-CU	c 76	N90-17456 *
NAS 1.71:LEW-14973-1	c 44	N92-10222 *	NAS 1.71:MSC-21625-1	c 53	N91-28730 *	NAS 1.71:NPO-17835-1-CU	c 76	N90-27518 *
NAS 1.71:LEW-15020-1	c 27	N91-15412 *	NAS 1.71:MSC-21631-1	c 75	N91-32947 *	NAS 1.71:NPO-17836-1-CU	c 32	N92-10126 *
NAS 1.71:LEW-15020-2	c 24	N91-25202 *	NAS 1.71:MSC-21632-1	c 54	N92-34210 *	NAS 1.71:NPO-17858-1-CU	c 24	N90-26880 *
NAS 1.71:LEW-15027-1	c 27	N91-13566 *	NAS 1.71:MSC-21648-1	c 37	N92-24051 *	NAS 1.71:NPO-17904-1-CU	c 32	N91-13594 *
NAS 1.71:LEW-15027-2	c 27	N92-34053 *	NAS 1.71:MSC-21723-1	c 18	N92-30315 *	NAS 1.71:NPO-17911-1-CU	c 32	N90-27016 *
NAS 1.71:LEW-15043-1	c 27	N91-32230 *	NAS 1.71:MSC-21730-1	c 37	N91-23493 *	NAS 1.71:NPO-17914-1-CU	c 39	N91-13767 *
NAS 1.71:LEW-15077-2	c 24	N91-28289 *	NAS 1.71:MSC-21737-1	c 61	N91-13911 *	NAS 1.71:NPO-17918-2-CU	c 63	N92-17895 *
NAS 1.71:LEW-15094-1	c 07	N91-23180 *	NAS 1.71:MSC-21752-1	c 54	N92-17910 *	NAS 1.71:NPO-17939-1-CU	c 60	N90-26518 *
NAS 1.71:LEW-15164-1	c 27	N91-25298 *	NAS 1.71:MSC-21759-1	c 25	N92-12079 *	NAS 1.71:NPO-17941-1-CU	c 32	N91-13595 *
NAS 1.71:LEW-15200-1	c 20	N91-32167 *	NAS 1.71:MSC-21763-1	c 51	N91-25570 *	NAS 1.71:NPO-17954-1-CU	c 60	N90-26519 *
NAS 1.71:LEW-15216-1	c 37	N92-17678 *	NAS 1.71:MSC-21775-1	c 52	N92-11627 *	NAS 1.71:NPO-17970-1-CU	c 43	N90-26384 *
NAS 1.71:LEW-15222-1	c 76	N91-26966 *	NAS 1.71:MSC-21793-1	c 16	N91-28186 *	NAS 1.71:NPO-17994-1-CU	c 33	N92-17907 *
NAS 1.71:LEW-15223-1	c 76	N91-26967 *	NAS 1.71:MSC-21806-1	c 74	N92-17863 *	NAS 1.71:NPO-17998-1-CU	c 60	N92-12438 *
NAS 1.71:LEW-15241-1	c 24	N92-17861 *	NAS 1.71:MSC-21843-1-NP	c 51	N92-24052 *	NAS 1.71:NPO-18007-1-CU	c 74	N92-17191 *
NAS 1.71:LEW-15308-1	c 44	N92-24057 *	NAS 1.71:MSC-21858-1	c 52	N92-11628 *	NAS 1.71:NPO-18062-1-CU	c 33	N92-30542 *
NAS 1.71:LEW-15314-1	c 27	N92-23461 *	NAS 1.71:MSC-21864-1	c 37	N92-23544 *	NAS 1.71:NPO-18075-1-CU	c 33	N91-13622 *
NAS 1.71:LEW-15360-1	c 25	N92-34206 *	NAS 1.71:MSC-21874-1	c 63	N92-30314 *	NAS 1.71:NPO-18116-1-CU	c 37	N91-32509 *
NAS 1.71:MFS-25302-2	c 33	N84-33660 *	NAS 1.71:MSC-21881-1	c 37	N92-30082 *	NAS 1.71:NPO-18134-1-CU	c 37	N91-32510 *
NAS 1.71:MFS-25637-1	c 44	N85-21769 *	NAS 1.71:MSC-21884-1	c 27	N92-30539 *	NAS 1.71:NPO-18146-1-CU	c 74	N92-17892 *
NAS 1.71:MFS-25717-1	c 35	N84-33768 *	NAS 1.71:MSC-21898-1	c 37	N92-17872 *	NAS 1.71:NPO-18155-1-CU	c 71	N92-10609 *
NAS 1.71:MFS-25721-1	c 25	N85-21280 *	NAS 1.71:MSC-21903-1	c 37	N92-30101 *	NAS 1.71:NPO-18194-1-CU	c 74	N91-32924 *
NAS 1.71:MFS-25852-1	c 33	N84-33661 *	NAS 1.71:MSC-21915-1	c 74	N92-30027 *	NAS 1.71:NPO-18243-1-CU	c 36	N91-32489 *
NAS 1.71:MFS-25861-1	c 33	N85-22877 *	NAS 1.71:MSC-21918-1	c 37	N92-30316 *	NAS 1.71:NPO-18278-1-CU	c 74	N91-32925 *
NAS 1.71:MFS-25862-1	c 27	N85-20126 *	NAS 1.71:MSC-21935-1	c 37	N92-29762 *	NAS 1.71:NPO-18317-1-CU	c 74	N91-32926 *
NAS 1.71:MFS-25862-2	c 37	N84-33807 *	NAS 1.71:MSC-21936-1	c 25	N92-19486 *	NAS 1.71:NPO-18366-1-CU	c 31	N92-17674 *
NAS 1.71:MFS-26002-1-CU	c 35	N86-26598 *	NAS 1.71:MSC-21940-1	c 37	N92-30540 *	NAS 1.71:NPO-18386-1-CU	c 36	N92-17899 *
NAS 1.71:MFS-26049-1-NP	c 25	N89-28603 *	NAS 1.71:MSC-21950-1	c 37	N92-34242 *	NAS 1.71:NPO-18410-1-CU	c 74	N92-29832 *
NAS 1.71:MFS-26061-1	c 76	N91-16815 *	NAS 1.71:MSC-21951-1	c 35	N92-23545 *	NAS 1.71:NPO-18414-1-CU	c 62	N92-24045 *
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NAS 1.71:MFS-26102-1-CU	c 47	N91-15661 *	NAS 1.71:MSC-21967-1	c 37	N92-30026 *	NAS 1.71:NPO-18433-1-CU	c 74	N92-34241 *
NAS 1.71:MFS-28008-1	c 35	N85-20300 *	NAS 1.71:NPO-13556-1	c 35	N84-33766 *	NAS 1.71:NPO-18435-1-CU	c 61	N92-30543 *
NAS 1.71:MFS-28013-1	c 89	N86-22459 *	NAS 1.71:NPO-15155-1	c 74	N85-22139 *	NAS 1.71:NPO-18448-1-CU	c 29	N92-30083 *
NAS 1.71:MFS-28013-2	c 89	N91-14096 *	NAS 1.71:NPO-15295-1	c 60	N85-21992 *	NAS 1.71:NPO-18454-1-CU	c 33	N92-17865 *
NAS 1.71:MFS-28013-3	c 89	N90-27594 *	NAS 1.71:NPO-15341-1	c 35	N84-33769 *	NAS 1.71:NPO-18478-1-CU	c 74	N92-30084 *
NAS 1.71:MFS-28139-1	c 29	N87-18679 *	NAS 1.71:NPO-15430-1	c 46	N85-21846 *	NAS 1.71:NPO-18491-1-CU	c 60	N92-23546 *
NAS 1.71:MFS-28153-1	c 31	N86-32589 *	NAS 1.71:NPO-15433-1	c 32	N85-21428 *	NAS 1.71:NPO-18497-1-CU	c 63	N92-24245 *
NAS 1.71:MFS-28161-1	c 37	N87-18817 *	NAS 1.71:NPO-15466-1	c 71	N85-22104 *	NAS 1.71:NPO-18498-1-CU	c 37	N92-24043 *
NAS 1.71:MFS-28183-1	c 74	N89-13253 *	NAS 1.71:NPO-15483-1	c 37	N85-21650 *	NAS 1.71:NPO-18499-1-CU	c 37	N92-24042 *
NAS 1.71:MFS-28248-1	c 31	N88-24817 *	NAS 1.71:NPO-15493-2	c 35	N85-34373 *	NAS 1.71:NPO-18552-1-CU	c 33	N92-24246 *
NAS 1.71:MFS-28273-1	c 37	N88-23974 *	NAS 1.71:NPO-15494-2	c 35	N85-34373 *	NAS 1.71:NPO-18553-1-CU	c 63	N92-30085 *
NAS 1.71:MFS-28282-1	c 76	N88-29602 *	NAS 1.71:NPO-15519-1	c 32	N84-34651 *	NAS 1.71:NPO-18578-1-CU	c 33	N92-30086 *
NAS 1.71:MFS-28287-1	c 35	N88-23959 *	NAS 1.71:NPO-15558-1	c 35	N84-34705 *	NAS 1.71:NPO-18593-1-CU	c 74	N92-17864 *
NAS 1.71:MFS-28295-1	c 74	N91-13999 *	NAS 1.71:NPO-15560-1	c 33	N85-21491 *	NAS 1.71:NPO-18607-1-CU	c 37	N92-23553 *
NAS 1.71:MFS-28327-1	c 18	N89-28556 *	NAS 1.71:NPO-15644-1	c 35	N84-33767 *	NAS 1.71:NPO-18625-1-CU	c 76	N92-30102 *
NAS 1.71:MFS-28328-1	c 37	N91-13731 *	NAS 1.71:NPO-15651-1	c 43	N85-21723 *	NAS 1.71:NPO-18645-1-CU	c 63	N92-34240 *
NAS 1.71:MFS-28345-2	c 37	N89-28842 *	NAS 1.71:NPO-15753-1	c 27	N84-33589 *	NAS 1.71:NPO-18668-1-CU	c 37	N92-29765 *
NAS 1.71:MFS-28368-1	c 75	N90-10717 *	NAS 1.71:NPO-15759-1	c 35	N85-21596 *	NAS 1.71:NPO-18690-1-CU	c 37	N92-34205 *
NAS 1.71:MFS-28384-1	c 37	N90-27112 *	NAS 1.71:NPO-15790-1	c 36	N85-21631 *	NAS 1.71:NPO-18701-1-CU	c 32	N92-30391 *
NAS 1.71:MFS-28390-1	c 24	N91-15333 *	NAS 1.71:NPO-15801-1	c 74	N85-23396 *	NAS 1.71:NPO-18702-1-CU	c 74	N92-23551 *
NAS 1.71:MFS-28406-1	c 37	N91-13729 *	NAS 1.71:NPO-15808-1	c 44	N84-34792 *	NAS 1.71:NPO-18713-1-CU	c 32	N92-30103 *
NAS 1.71:MFS-28422-1	c 29	N91-17250 *	NAS 1.71:NPO-15851-1	c 37	N85-21652 *	NAS 1.71:SSC-00006-1	c 35	N91-13691 *
NAS 1.71:MFS-28430-1	c 54	N92-24044 *	NAS 1.71:NPO-15920-1	c 33	N85-21493 *	NAS 1.71:SSC-00008-1	c 37	N91-13733 *
NAS 1.71:MFS-28431-1	c 24	N92-17870 *	NAS 1.71:NPO-16022-1	c 71	N85-22105 *	NAS 1.71:SSC-00010-1	c 82	N91-23976 *
NAS 1.71:MFS-28458-1	c 33	N91-26459 *	NAS 1.71:NPO-16027-1	c 35	N85-21597 *	NAS 1.71:SSC-00010-2	c 82	N92-23550 *
NAS 1.71:MFS-28473-1	c 76	N91-26968 *	NAS 1.71:NPO-16233-1	c 37	N86-20801 *	NAS 1.71:SSC-00013-1	c 38	N91-32515 *
NAS 1.71:MFS-28481-1	c 54	N92-24056 *	NAS 1.71:NPO-16420-1	c 33	N86-20681 *	NAS 1.71:WLP-10055-2	c 35	N85-21598 *
NAS 1.71:MFS-28493-1	c 09	N91-25155 *	NAS 1.71:NPO-16464-1-CU	c 60	N86-24224 *	NAS 1.71:14846-2	c 20	N91-26200 *
NAS 1.71:MFS-28496-1	c 26	N92-34239 *	NAS 1.71:NPO-16494-1-CU	c 34	N85-29182 *	NASA-CASE-ARC-10003-1	c 09	N71-25866 *
NAS 1.71:MFS-28521-1	c 37	N91-26542 *	NAS 1.71:NPO-16584-1-CU	c 76	N86-25269 *	NASA-CASE-ARC-10009-1	c 15	N71-17822 *
NAS 1.71:MFS-28524-1	c 18	N91-25167 *	NAS 1.71:NPO-16632-1-CU	c 32	N87-15390 *	NASA-CASE-ARC-10017-1	c 14	N72-29464 *
NAS 1.71:MFS-28545-1	c 31	N91-25306 *	NAS 1.71:NPO-16784-1	c 33	N87-10231 *	NASA-CASE-ARC-10020	c 10	N72-17172 *
NAS 1.71:MFS-28563-1	c 35	N91-25388 *	NAS 1.71:NPO-16869	c 74	N86-33138 *	NASA-CASE-ARC-10030	c 09	N71-12521 *
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NAS 1.71:MFS-28633-1	c 54	N92-17866 *	NAS 1.71:NPO-16892-1-CU	c 37	N87-14704 *	NASA-CASE-ARC-10043-1	c 05	N71-11193 *
NAS 1.71:MFS-28634-1	c 37	N92-24055 *	NAS 1.71:NPO-16932-1	c 33	N87-15413 *	NASA-CASE-ARC-10050	c 03	N71-33409 *
NAS 1.71:MFS-28682-1	c 27	N92-29831 *	NAS 1.71:NPO-17024-1-CU	c 35	N88-24943 *	NASA-CASE-ARC-10097-2	c 07	N73-25160 *
NAS 1.71:MFS-29291-1	c 37	N89-12868 *	NAS 1.71:NPO-17139-1-CU	c 74	N88-25301 *	NASA-CASE-ARC-10098-1	c 06	N71-24739 *
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NAS 1.71:MSC-20112-1	c 37	N85-20338 *	NAS 1.71:NPO-17184-1-CU	c 32	N88-26541 *	NASA-CASE-ARC-10100-1	c 05	N71-24738 *
NAS 1.71:MSC-20275-1	c 35	N85-21595 *	NAS 1.71:NPO-17207-1-CU	c 74	N88-25304 *	NASA-CASE-ARC-10101-1	c 09	N71-33109 *
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NASA-CASE-ARC-10138-1	c 14	N72-24477 *	NASA-CASE-ARC-10855-1	c 52	N77-10780 *	NASA-CASE-ARC-11314-1	c 54	N82-26987 *
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NASA-CASE-ARC-10153	c 05	N71-28619 *	NASA-CASE-ARC-10896-1	c 35	N78-19465 *	NASA-CASE-ARC-11321-1	c 27	N81-27272 *
NASA-CASE-ARC-10154-1	c 14	N72-22440 *	NASA-CASE-ARC-10897-1	c 33	N77-31404 *	NASA-CASE-ARC-11322-1	c 51	N83-28849 *
NASA-CASE-ARC-10160-1	c 23	N72-27728 *	NASA-CASE-ARC-10898-1	c 35	N77-18417 *	NASA-CASE-ARC-11325-1	c 37	N82-22496 * #
NASA-CASE-ARC-10176-1	c 15	N72-21464 *	NASA-CASE-ARC-10899-1	c 60	N77-19760 *	NASA-CASE-ARC-11326-1	c 25	N83-33977 *
NASA-CASE-ARC-10178-1	c 09	N72-17152 *	NASA-CASE-ARC-10900-1	c 35	N77-24454 *	NASA-CASE-ARC-11349-1	c 37	N86-20797 * #
NASA-CASE-ARC-10179-1	c 21	N72-22619 *	NASA-CASE-ARC-10903-1	c 09	N78-18083 *	NASA-CASE-ARC-11354-1	c 74	N83-21949 *
NASA-CASE-ARC-10180-1	c 27	N74-12814 *	NASA-CASE-ARC-10905-1	c 37	N77-13418 *	NASA-CASE-ARC-11359-1	c 51	N84-28361 *
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NASA-CASE-ARC-10196-1	c 18	N73-13562 *	NASA-CASE-ARC-10912-1	c 34	N77-19353 *	NASA-CASE-ARC-11368-1	c 27	N83-31854 *
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NASA-CASE-ARC-10199	c 34	N78-17337 *	NASA-CASE-ARC-10916-1	c 52	N78-10686 *	NASA-CASE-ARC-11370-1	c 27	N84-22750 *
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NASA-CASE-ARC-10302-1	c 51	N74-15778 *	NASA-CASE-ARC-10979-1	c 09	N77-19076 *	NASA-CASE-ARC-11418-1	c 24	N84-11213 *
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NASA-CASE-ERC-10339-1	c 18	N73-30532 *	NASA-CASE-GSC-10361-1	c 18	N72-23581 *	NASA-CASE-GSC-11487-1	c 14	N73-30393 *
NASA-CASE-ERC-10350	c 14	N73-20474 *	NASA-CASE-GSC-10366-1	c 10	N71-18772 *	NASA-CASE-GSC-11492-1	c 35	N74-26949 *
NASA-CASE-ERC-10363	c 18	N72-25541 *	NASA-CASE-GSC-10373-1	c 07	N71-19773 *	NASA-CASE-GSC-11513-1	c 33	N74-20862 *
NASA-CASE-ERC-10364	c 18	N72-25540 *	NASA-CASE-GSC-10376-1	c 14	N71-27407 *	NASA-CASE-GSC-11514-1	c 03	N72-24037 *
NASA-CASE-ERC-10365-1	c 31	N72-32749 *	NASA-CASE-GSC-10390-1	c 07	N72-11149 *	NASA-CASE-GSC-11531-1	c 52	N74-27566 *
NASA-CASE-ERC-10392	c 21	N73-14692 *	NASA-CASE-GSC-10413	c 10	N71-26531 *	NASA-CASE-GSC-11533-1	c 14	N73-13435 *
NASA-CASE-ERC-10403-1	c 10	N73-26228 *	NASA-CASE-GSC-10441-1	c 14	N71-27325 *	NASA-CASE-GSC-11551-1	c 37	N76-18459 *
NASA-CASE-ERC-10412-1	c 09	N73-12211 *	NASA-CASE-GSC-10452	c 07	N71-12396 *	NASA-CASE-GSC-11553-1	c 35	N74-15831 *
NASA-CASE-ERC-10419-1	c 03	N75-30132 *	NASA-CASE-GSC-10487-1	c 03	N71-24719 *	NASA-CASE-GSC-11560-1	c 33	N74-20861 *
NASA-CASE-ERC-10439	c 02	N73-19004 *	NASA-CASE-GSC-10503-1	c 14	N72-20381 *	NASA-CASE-GSC-11569-1	c 89	N74-30886 *
NASA-CASE-ERC-10468	c 09	N72-20206 *	NASA-CASE-GSC-10514-1	c 14	N72-20379 *	NASA-CASE-GSC-11571-1	c 36	N77-25499 *
NASA-CASE-ERC-10552	c 09	N71-12539 *	NASA-CASE-GSC-10518-1	c 15	N72-22489 *	NASA-CASE-GSC-11577-1	c 37	N75-15992 *
NASA-CASE-ERC-11020	c 14	N71-26774 *	NASA-CASE-GSC-10553-1	c 07	N71-19854 *	NASA-CASE-GSC-11577-3	c 24	N79-25143 *
			NASA-CASE-GSC-10554-1	c 08	N71-29033 *	NASA-CASE-GSC-11582-1	c 33	N75-19017 *
NASA-CASE-FRC-10005	c 15	N71-26145 *	NASA-CASE-GSC-10555-1	c 21	N71-27324 *	NASA-CASE-GSC-11600-1	c 35	N74-21019 *
NASA-CASE-FRC-10010	c 10	N71-24862 *	NASA-CASE-GSC-10556-1	c 31	N71-26537 *	NASA-CASE-GSC-11602-1	c 33	N74-21850 *
NASA-CASE-FRC-10012	c 14	N72-17329 *	NASA-CASE-GSC-10557-1	c 31	N71-26537 *	NASA-CASE-GSC-11617-1	c 33	N74-32660 *
NASA-CASE-FRC-10019	c 15	N73-12487 *	NASA-CASE-GSC-10564	c 10	N71-29135 *	NASA-CASE-GSC-11619-1	c 34	N75-12222 *
NASA-CASE-FRC-10022	c 12	N71-26546 *	NASA-CASE-GSC-10565-1	c 06	N72-25149 *	NASA-CASE-GSC-11620-1	c 34	N74-23039 *
NASA-CASE-FRC-10029-2	c 05	N72-25121 *	NASA-CASE-GSC-10566-1	c 15	N72-18477 *	NASA-CASE-GSC-11623-1	c 33	N75-25040 *
NASA-CASE-FRC-10029	c 09	N71-24618 *	NASA-CASE-GSC-10590-1	c 31	N73-14853 *	NASA-CASE-GSC-11743-1	c 32	N75-24981 *
NASA-CASE-FRC-10036	c 09	N72-22200 *	NASA-CASE-GSC-10607-1	c 15	N72-20442 *	NASA-CASE-GSC-11744-1	c 33	N75-26243 *
NASA-CASE-FRC-10038	c 15	N72-20444 *	NASA-CASE-GSC-10614-1	c 09	N72-11224 *	NASA-CASE-GSC-11746-1	c 36	N75-19654 *
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NASA-CASE-FRC-10051-1	c 35	N74-13129 *	NASA-CASE-GSC-10656-1	c 09	N72-25249 *	NASA-CASE-GSC-11760-1	c 33	N75-19516 *
NASA-CASE-FRC-10053	c 14	N70-35587 *	NASA-CASE-GSC-10667-1	c 10	N71-33129 *	NASA-CASE-GSC-11782-1	c 74	N76-30053 *
NASA-CASE-FRC-10060-1	c 14	N74-27379 *	NASA-CASE-GSC-10668-1	c 07	N71-28430 *	NASA-CASE-GSC-11783-1	c 33	N75-19516 *
NASA-CASE-FRC-10063	c 01	N71-12217 *	NASA-CASE-GSC-10669-1	c 03	N72-20031 *	NASA-CASE-GSC-11786-1	c 24	N76-24363 *
NASA-CASE-FRC-10071-1	c 32	N74-20813 *	NASA-CASE-GSC-10695-1	c 09	N72-25259 *	NASA-CASE-GSC-11789-1	c 33	N77-14333 *
NASA-CASE-FRC-10072-1	c 33	N74-14939 *	NASA-CASE-GSC-10700	c 23	N71-30027 *	NASA-CASE-GSC-11824-1	c 33	N77-26386 *
NASA-CASE-FRC-10081-1	c 37	N77-14477 *	NASA-CASE-GSC-10709-1	c 28	N71-25213 *	NASA-CASE-GSC-11829-1	c 35	N75-27331 *

NASA-CASE-GSC-11839-1	c 60	N77-14751 *	NASA-CASE-GSC-12415-1	c 33	N82-24419 *	NASA-CASE-GSC-13199-1	c 27	N90-23541 *
NASA-CASE-GSC-11839-2	c 60	N78-10709	NASA-CASE-GSC-12420-1	c 33	N82-16340 *	NASA-CASE-GSC-13200-1	c 37	N92-21500 *
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NASA-CASE-GSC-11844-1	c 33	N75-19522 *	NASA-CASE-GSC-12430-1	c 60	N82-16747 *	NASA-CASE-GSC-13220-1	c 37	N92-29140 *
NASA-CASE-GSC-11849-1	c 33	N76-16332 *	NASA-CASE-GSC-12442-2	c 33	N90-20282 *	NASA-CASE-GSC-13230-1	c 37	N92-28754 *
NASA-CASE-GSC-11862-1	c 32	N76-18295 *	NASA-CASE-GSC-12447-2	c 60	N84-28491 *	NASA-CASE-GSC-13237-1	c 33	N91-14550 *
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NASA-CASE-GSC-11883-1	c 37	N77-19458 *	NASA-CASE-GSC-12515-1	c 33	N81-26360 *	NASA-CASE-GSC-13251-1	c 37	N92-29120 *
NASA-CASE-GSC-11883-2	c 37	N78-31426 *	NASA-CASE-GSC-12517-1	c 37	N83-32067 *	NASA-CASE-GSC-13261-1	c 37	N92-29138 *
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NASA-CASE-GSC-11892-1	c 35	N76-15433 *	NASA-CASE-GSC-12528-1	c 74	N81-24900 *	NASA-CASE-GSC-13280-1	c 33	N91-27479 *
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NASA-CASE-GSC-12075-1	c 32	N77-31350 *	NASA-CASE-GSC-12697-1	c 44	N83-28574 *	NASA-CASE-HQN-10462	c 25	N75-29192 *
NASA-CASE-GSC-12077-1	c 35	N77-24455 *	NASA-CASE-GSC-12726-1	c 37	N83-34323 *	NASA-CASE-HQN-10537-1	c 06	N72-10138 *
NASA-CASE-GSC-12081-2	c 52	N82-22875 *	NASA-CASE-GSC-12756-1	c 74	N84-23248 *	NASA-CASE-HQN-10541-1	c 07	N71-26291 *
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NASA-CASE-GSC-12111-2	c 33	N81-29342 *	NASA-CASE-GSC-12782-1	c 33	N88-14271 *	NASA-CASE-HQN-10638-1	c 15	N73-30460 *
NASA-CASE-GSC-12115-1	c 62	N76-31946 *	NASA-CASE-GSC-12788-1	c 33	N85-29145 *	NASA-CASE-HQN-10654-1	c 16	N73-13489 *
NASA-CASE-GSC-12137-1	c 33	N78-32338 *	NASA-CASE-GSC-12789-1	c 35	N85-20294 *	NASA-CASE-HQN-10683	c 14	N71-34389 *
NASA-CASE-GSC-12138-1	c 33	N79-20314 *	NASA-CASE-GSC-12795-1	c 35	N86-19580 *	NASA-CASE-HQN-10703	c 21	N73-13643 *
NASA-CASE-GSC-12143-1	c 35	N77-32456 *	NASA-CASE-GSC-12799-1	c 31	N85-21404 *	NASA-CASE-HQN-10740-1	c 72	N74-19310 *
NASA-CASE-GSC-12145-1	c 33	N78-32339 *	NASA-CASE-GSC-12804-1	c 33	N86-20668 *	NASA-CASE-HQN-10756-1	c 14	N72-25428 *
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NASA-CASE-GSC-12150-1	c 32	N79-11265 *	NASA-CASE-GSC-12817-1	c 33	N85-29146 *	NASA-CASE-HQN-10792-1	c 33	N74-11049 *
NASA-CASE-GSC-12158-1	c 51	N83-27569 *	NASA-CASE-GSC-12818-1	c 33	N85-29147 *	NASA-CASE-HQN-10832-1	c 71	N74-21014 *
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NASA-CASE-GSC-12173-1	c 51	N79-10694 *	NASA-CASE-GSC-12849-1	c 74	N86-26190 *	NASA-CASE-HQN-10862-1	c 44	N76-29699 *
NASA-CASE-GSC-12190-1	c 33	N79-12321 *	NASA-CASE-GSC-12851-1	c 35	N85-30281 *	NASA-CASE-HQN-10876-1	c 33	N76-27473 *
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NASA-CASE-GSC-12253-1	c 34	N79-31523 *	NASA-CASE-GSC-12957-1	c 37	N87-17038 *	NASA-CASE-KSC-10108	c 14	N73-25461 *
NASA-CASE-GSC-12263-1	c 74	N79-20857 *	NASA-CASE-GSC-12958-1	c 33	N86-32624 *	NASA-CASE-KSC-10126	c 11	N71-24985 *
NASA-CASE-GSC-12273-1	c 35	N80-21719 *	NASA-CASE-GSC-12961-1	c 33	N87-22895 *	NASA-CASE-KSC-10162	c 09	N72-11225 *
NASA-CASE-GSC-12274-1	c 37	N79-28550 *	NASA-CASE-GSC-12970-1	c 08	N88-23808 *	NASA-CASE-KSC-10164	c 07	N71-33108 *
NASA-CASE-GSC-12289-1	c 37	N80-32717 *	NASA-CASE-GSC-13008-1	c 27	N88-23894 *	NASA-CASE-KSC-10198	c 11	N71-28629 *
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NASA-CASE-GSC-12297-1	c 37	N79-28549 *	NASA-CASE-GSC-13018-1	c 33	N87-21232 *	NASA-CASE-KSC-10278	c 05	N72-16015 *
NASA-CASE-GSC-12303-1	c 24	N79-31347 *	NASA-CASE-GSC-13019-1	c 34	N88-29133 *	NASA-CASE-KSC-10294	c 14	N72-18411 *
NASA-CASE-GSC-12318-1	c 37	N80-23655 *	NASA-CASE-GSC-13027-1-CU	c 35	N91-27522 *	NASA-CASE-KSC-10326	c 08	N72-21197 *
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NASA-CASE-GSC-12322-1	c 37	N80-14398 *	NASA-CASE-GSC-13112-1	c 31	N89-29578 *	NASA-CASE-KSC-10393	c 09	N72-21247 *
NASA-CASE-GSC-12324-1	c 33	N81-33403 *	NASA-CASE-GSC-13127-1	c 37	N91-17388 *	NASA-CASE-KSC-10397	c 08	N72-25206 *
NASA-CASE-GSC-12331-1	c 18	N80-14183 *	NASA-CASE-GSC-13141-1	c 37	N92-23548 *	NASA-CASE-KSC-10513	c 15	N72-25453 *
NASA-CASE-GSC-12334-1	c 36	N79-14362 *	NASA-CASE-GSC-13153-1	c 37	N91-17387 *	NASA-CASE-KSC-10521	c 07	N73-20176 *
NASA-CASE-GSC-12347-1	c 33	N80-18286 *	NASA-CASE-GSC-13161-1	c 37	N92-33634 *	NASA-CASE-KSC-10565	c 09	N72-25250 *
NASA-CASE-GSC-12348-1	c 74	N80-24149 *	NASA-CASE-GSC-13173-1	c 33	N90-23635 *	NASA-CASE-KSC-10595	c 08	N73-12176 *
NASA-CASE-GSC-12354-1	c 35	N82-24471 *	NASA-CASE-GSC-13175-1	c 74	N92-29133 *	NASA-CASE-KSC-10615	c 15	N73-12486 *
NASA-CASE-GSC-12357-1	c 74	N80-21140 *	NASA-CASE-GSC-13179-1	c 33	N91-26438 *	NASA-CASE-KSC-10622-1	c 31	N72-21893 *
NASA-CASE-GSC-12360-1	c 33	N81-19392 *	NASA-CASE-GSC-13187-1	c 33	N92-29153 *	NASA-CASE-KSC-10626	c 14	N73-27378 *
NASA-CASE-GSC-12365-1	c 32	N80-28578 *	NASA-CASE-GSC-13189-2	c 37	N92-29151 *	NASA-CASE-KSC-10639	c 15	N73-26472 *
NASA-CASE-GSC-12399-1	c 33	N81-25299 *	NASA-CASE-GSC-13196-1	c 60	N92-29132 *	NASA-CASE-KSC-10644	c 09	N72-27227 *
NASA-CASE-GSC-12411-1	c 33	N81-14221 *	NASA-CASE-GSC-13197-1	c 18	N91-27201 *	NASA-CASE-KSC-10647-1	c 10	N72-31273 *

NASA-CASE-KSC-10654-1	c 07	N73-30115 *	NASA-CASE-LAR-10305	c 14	N71-26137 *	NASA-CASE-LAR-11027-1	c 35	N74-18088 *
NASA-CASE-KSC-10698	c 07	N73-20175 *	NASA-CASE-LAR-10310-1	c 10	N73-20253 *	NASA-CASE-LAR-11042-1	c 33	N75-27252 *
NASA-CASE-KSC-10723-1	c 37	N75-13265 *	NASA-CASE-LAR-10311-1	c 16	N73-16536 *	NASA-CASE-LAR-11051-1	c 15	N76-14158 *
NASA-CASE-KSC-10728-1	c 14	N73-32319 *	NASA-CASE-LAR-10317-1	c 32	N71-16103 *	NASA-CASE-LAR-11053-1	c 25	N74-18551 *
NASA-CASE-KSC-10729-1	c 09	N73-32110 *	NASA-CASE-LAR-10318-1	c 31	N74-18089 *	NASA-CASE-LAR-11059-1	c 26	N75-12810 *
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NASA-CASE-KSC-10750-1	c 35	N75-12270 *	NASA-CASE-LAR-10337-1	c 24	N75-30260 *	NASA-CASE-LAR-11110-1	c 34	N75-26282 *
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NASA-CASE-KSC-10782-1	c 33	N75-30431 *	NASA-CASE-LAR-10365-1	c 05	N72-27102 *	NASA-CASE-LAR-11138	c 12	N71-20436 *
NASA-CASE-KSC-10807-1	c 33	N75-26246 *	NASA-CASE-LAR-10372	c 09	N71-18599 *	NASA-CASE-LAR-11139-1	c 35	N74-32878 *
NASA-CASE-KSC-10834-1	c 33	N76-14371 *	NASA-CASE-LAR-10373-1	c 18	N71-26155 *	NASA-CASE-LAR-11141-1	c 07	N74-32418 *
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NASA-CASE-KSC-11004-1	c 54	N77-30749 *	NASA-CASE-LAR-10403	c 21	N71-11766 *	NASA-CASE-LAR-11173-1	c 35	N75-19614 *
NASA-CASE-KSC-11008-1	c 33	N79-22373 *	NASA-CASE-LAR-10409-1	c 31	N74-21059 *	NASA-CASE-LAR-11201-1	c 35	N78-24515 *
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NASA-CASE-KSC-11031-1	c 33	N79-11315 *	NASA-CASE-LAR-10450-1	c 37	N74-27905 *	NASA-CASE-LAR-11237-1	c 35	N75-19612 *
NASA-CASE-KSC-11034-1	c 44	N78-32542 *	NASA-CASE-LAR-10483-1	c 14	N74-27905 *	NASA-CASE-LAR-11252-1	c 05	N75-25914 *
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NASA-CASE-KSC-11099-1	c 47	N82-24779 *	NASA-CASE-LAR-10546-1	c 11	N72-25287 *	NASA-CASE-LAR-11397-1	c 27	N75-29263 *
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NASA-CASE-KSC-11368-1	c 37	N89-13786 *	NASA-CASE-LAR-10586-1	c 19	N74-15089 *	NASA-CASE-LAR-11500-1	c 35	N77-24523 *
NASA-CASE-KSC-11386-1	c 35	N90-22023 *	NASA-CASE-LAR-10590-1	c 15	N70-26819 *	NASA-CASE-LAR-11549-1	c 37	N77-11397 *
NASA-CASE-KSC-11387-1	c 29	N90-20236 *	NASA-CASE-LAR-10595-1	c 35	N74-16135 *	NASA-CASE-LAR-11551-1	c 44	N80-29834 *
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NASA-CASE-LAR-02743	c 14	N73-32324 *	NASA-CASE-LAR-10623-1	c 14	N73-30395 *	NASA-CASE-LAR-11570-1	c 34	N76-18364 *
NASA-CASE-LAR-10000	c 14	N73-30394 *	NASA-CASE-LAR-10626-1	c 19	N74-21015 *	NASA-CASE-LAR-11575-1	c 02	N76-16014 *
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NASA-CASE-LAR-10083-1	c 15	N71-27006 *	NASA-CASE-LAR-10682-1	c 02	N73-26004 *	NASA-CASE-LAR-11667-1	c 52	N76-19785 *
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NASA-CASE-LAR-10098	c 32	N71-26681 *	NASA-CASE-LAR-10688-1	c 37	N74-21056 *	NASA-CASE-LAR-11675-1	c 45	N76-17656 *
NASA-CASE-LAR-10102-1	c 05	N72-23085 *	NASA-CASE-LAR-10717-1	c 21	N73-30641 *	NASA-CASE-LAR-11678-1	c 24	N82-26384 *
NASA-CASE-LAR-10103-1	c 15	N73-14468 *	NASA-CASE-LAR-10726-1	c 14	N73-20475 *	NASA-CASE-LAR-11690-1	c 35	N80-14371 *
NASA-CASE-LAR-10105-1	c 34	N74-15652 *	NASA-CASE-LAR-10728-1	c 14	N73-12445 *	NASA-CASE-LAR-11695-2	c 37	N81-24443 *
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NASA-CASE-LAR-10274-1	c 14	N71-17626 *	NASA-CASE-LAR-10941-2	c 37	N79-13364 *	NASA-CASE-LAR-11973-1	c 35	N78-27384 *
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			NASA-CASE-LAR-11021-1	c 32	N76-14321 *	NASA-CASE-LAR-12009-1	c 44	N78-15560 *

NASA-CASE-LAR-12016-1	c 39	N78-15512 *	NASA-CASE-LAR-12723-1	c 27	N85-20123 *	NASA-CASE-LAR-13318-1	c 27	N87-14516 *
NASA-CASE-LAR-12018-1	c 20	N78-24275 *	NASA-CASE-LAR-12723-2	c 27	N84-22746 *	NASA-CASE-LAR-13351-1	c 27	N86-31727 *
NASA-CASE-LAR-12019-1	c 24	N78-17150 *	NASA-CASE-LAR-12728-1	c 35	N83-32026 *	NASA-CASE-LAR-13353-1	c 27	N86-29039 *
NASA-CASE-LAR-12027-1	c 39	N79-22537 *	NASA-CASE-LAR-12738-2	c 37	N85-30335 *	NASA-CASE-LAR-13384-1	c 27	N86-20561 *
NASA-CASE-LAR-12045-1	c 34	N77-24423 *	NASA-CASE-LAR-12743-1	c 35	N84-28019 *	NASA-CASE-LAR-13387-1	c 74	N88-25302 *
NASA-CASE-LAR-12046-1	c 25	N78-15210 *	NASA-CASE-LAR-12751-1	c 15	N84-16231 *	NASA-CASE-LAR-13388-1	c 25	N92-33611 *
NASA-CASE-LAR-12052-1	c 18	N81-29152 *	NASA-CASE-LAR-12772-1	c 33	N83-16626 *	NASA-CASE-LAR-13392-1-CU	c 19	N91-14412 *
NASA-CASE-LAR-12054-1	c 27	N79-33316 *	NASA-CASE-LAR-12775-1	c 27	N83-28240 *	NASA-CASE-LAR-13393-1	c 54	N87-29118 *
NASA-CASE-LAR-12054-2	c 27	N81-14078 *	NASA-CASE-LAR-12775-2	c 27	N85-21349 *	NASA-CASE-LAR-13407-1	c 33	N87-28831 *
NASA-CASE-LAR-12065-1	c 24	N81-14000 *	NASA-CASE-LAR-12785-1	c 37	N84-16561 *	NASA-CASE-LAR-13411-1-SB	c 18	N88-23828 *
NASA-CASE-LAR-12065-2	c 24	N81-33235 *	NASA-CASE-LAR-12786-1	c 37	N84-28085 *	NASA-CASE-LAR-13434-1	c 37	N90-23742 *
NASA-CASE-LAR-12077-1	c 31	N81-25259 *	NASA-CASE-LAR-12787-2	c 08	N85-19985 *	NASA-CASE-LAR-13435-1	c 37	N88-23981 *
NASA-CASE-LAR-12095-1	c 31	N81-25258 *	NASA-CASE-LAR-12801-1	c 37	N88-23982 *	NASA-CASE-LAR-13436-1-CU	c 02	N88-23759 *
NASA-CASE-LAR-12099-1	c 27	N80-16158 *	NASA-CASE-LAR-12807-1	c 24	N84-11214 *	NASA-CASE-LAR-13438-1	c 31	N89-12786 *
NASA-CASE-LAR-12106-1	c 71	N78-14867 *	NASA-CASE-LAR-12838-1	c 27	N83-34040 *	NASA-CASE-LAR-13440-1	c 71	N87-21653 *
NASA-CASE-LAR-12147-1	c 31	N79-11246 *	NASA-CASE-LAR-12843-1	c 02	N84-11136 *	NASA-CASE-LAR-13444-1-CU	c 27	N87-22847 *
NASA-CASE-LAR-12148-1	c 44	N82-24640 *	NASA-CASE-LAR-12847-1	c 33	N83-16633 *	NASA-CASE-LAR-13444-2-CU	c 23	N89-12667 *
NASA-CASE-LAR-12149-2	c 09	N79-31228 *	NASA-CASE-LAR-12852-1	c 05	N89-11738 *	NASA-CASE-LAR-13447-1	c 27	N88-18725 *
NASA-CASE-LAR-12175-1	c 05	N82-28279 *	NASA-CASE-LAR-12858-1	c 27	N83-34041 *	NASA-CASE-LAR-13448-1	c 27	N90-21198 *
NASA-CASE-LAR-12176-1	c 36	N80-16321 *	NASA-CASE-LAR-12858-2	c 27	N85-20124 *	NASA-CASE-LAR-13450-1	c 27	N87-28657 *
NASA-CASE-LAR-12177-1	c 36	N81-24422 *	NASA-CASE-LAR-12862-1	c 27	N84-27886 *	NASA-CASE-LAR-13452-1	c 27	N87-22848 *
NASA-CASE-LAR-12178-1	c 74	N80-21138 *	NASA-CASE-LAR-12864-1	c 37	N85-30336 *	NASA-CASE-LAR-13453-1	c 37	N88-14361 *
NASA-CASE-LAR-12181-1	c 27	N78-17205 *	NASA-CASE-LAR-12868-1	c 37	N85-21651 *	NASA-CASE-LAR-13455-1	c 32	N87-21206 *
NASA-CASE-LAR-12183-1	c 36	N79-18307 *	NASA-CASE-LAR-12870-1	c 36	N84-16542 *	NASA-CASE-LAR-13458-1	c 35	N88-23967 *
NASA-CASE-LAR-12195-1	c 31	N81-27324 *	NASA-CASE-LAR-12881-1	c 27	N84-14323 *	NASA-CASE-LAR-13465-1	c 27	N90-23544 *
NASA-CASE-LAR-12196-1	c 33	N81-26358 *	NASA-CASE-LAR-12882-1	c 35	N84-12445 *	NASA-CASE-LAR-13470-1	c 03	N88-14083 *
NASA-CASE-LAR-12205-1	c 44	N80-20810 *	NASA-CASE-LAR-12883-1	c 71	N83-17235 *	NASA-CASE-LAR-13474-1-SB	c 26	N87-25455 *
NASA-CASE-LAR-12215-1	c 08	N79-23097 *	NASA-CASE-LAR-12884-1	c 18	N84-33450 *	NASA-CASE-LAR-13476-1-CU	c 76	N87-29360 *
NASA-CASE-LAR-12230-1	c 35	N79-14347 *	NASA-CASE-LAR-12887-3	c 24	N90-21822 *	NASA-CASE-LAR-13486-1	c 16	N90-22584 *
NASA-CASE-LAR-12250-1	c 14	N81-26161 *	NASA-CASE-LAR-12893-1	c 76	N85-30923 *	NASA-CASE-LAR-13489-1	c 18	N87-27713 *
NASA-CASE-LAR-12251-1	c 74	N80-27185 *	NASA-CASE-LAR-12894-1	c 27	N85-20125 *	NASA-CASE-LAR-13490-1	c 18	N91-27199 *
NASA-CASE-LAR-12259-2	c 54	N86-22112 *	NASA-CASE-LAR-12923-1	c 37	N84-12493 *	NASA-CASE-LAR-13506-1	c 27	N89-12741 *
NASA-CASE-LAR-12260-1	c 35	N79-10390 *	NASA-CASE-LAR-12931-1	c 27	N84-22747 *	NASA-CASE-LAR-13508-1	c 35	N92-21710 *
NASA-CASE-LAR-12261-1	c 02	N80-20224 *	NASA-CASE-LAR-12931-2	c 27	N86-21675 *	NASA-CASE-LAR-13511-1	c 05	N88-23765 *
NASA-CASE-LAR-12264-1	c 15	N78-32168 *	NASA-CASE-LAR-12950-1	c 09	N84-34448 *	NASA-CASE-LAR-13512-1	c 35	N87-28884 *
NASA-CASE-LAR-12268-1	c 08	N81-24106 *	NASA-CASE-LAR-12958-1	c 44	N84-23019 *	NASA-CASE-LAR-13519-1	c 35	N88-23963 *
NASA-CASE-LAR-12269-1	c 35	N80-18358 *	NASA-CASE-LAR-12966-1	c 35	N85-30282 *	NASA-CASE-LAR-13522-1-SB	c 09	N87-25334 *
NASA-CASE-LAR-12275-1	c 35	N79-18296 *	NASA-CASE-LAR-12967-1	c 35	N84-22932 *	NASA-CASE-LAR-13528-1	c 25	N88-29002 *
NASA-CASE-LAR-12285-1	c 35	N80-28687 *	NASA-CASE-LAR-12968-1	c 60	N86-21154 *	NASA-CASE-LAR-13532-1	c 34	N91-14562 *
NASA-CASE-LAR-12304-1	c 35	N80-20559 *	NASA-CASE-LAR-12971-1	c 47	N84-28292 *	NASA-CASE-LAR-13542-2-SB	c 25	N90-20154 *
NASA-CASE-LAR-12308-1	c 35	N81-29407 *	NASA-CASE-LAR-12979-1	c 05	N85-21147 *	NASA-CASE-LAR-13548-1	c 09	N91-28175 *
NASA-CASE-LAR-12315-1	c 37	N82-24490 *	NASA-CASE-LAR-12980-1	c 27	N84-22749 *	NASA-CASE-LAR-13552-1-CU	c 33	N89-14385 *
NASA-CASE-LAR-12320-1	c 54	N81-27806 *	NASA-CASE-LAR-12984-1	c 06	N87-22678 *	NASA-CASE-LAR-13554-1	c 02	N89-12551 *
NASA-CASE-LAR-12321-1	c 35	N82-24470 *	NASA-CASE-LAR-12995-1	c 35	N84-22933 *	NASA-CASE-LAR-13555-1	c 23	N86-32526 *
NASA-CASE-LAR-12326-1	c 02	N81-14968 *	NASA-CASE-LAR-13006-1	c 17	N87-16863 *	NASA-CASE-LAR-13562-1	c 24	N90-25196 *
NASA-CASE-LAR-12328-1	c 36	N82-32712 *	NASA-CASE-LAR-13009-1	c 37	N85-29285 *	NASA-CASE-LAR-13562-2	c 24	N91-25199 *
NASA-CASE-LAR-12344-1	c 43	N80-18498 *	NASA-CASE-LAR-13009-2	c 37	N87-22976 *	NASA-CASE-LAR-13563-1	c 34	N91-23410 *
NASA-CASE-LAR-12361-1	c 37	N83-19091 *	NASA-CASE-LAR-13014-1	c 09	N85-21178 *	NASA-CASE-LAR-13564-1	c 35	N87-25558 *
NASA-CASE-LAR-12363-1	c 35	N82-31659 *	NASA-CASE-LAR-13019-1	c 07	N85-35194 *	NASA-CASE-LAR-13569-1	c 35	N89-12841 *
NASA-CASE-LAR-12363-2	c 33	N83-24763 *	NASA-CASE-LAR-13028-1	c 52	N85-30618 *	NASA-CASE-LAR-13580-1	c 37	N91-21541 *
NASA-CASE-LAR-12372-1	c 37	N82-18601 *	NASA-CASE-LAR-13040-1	c 37	N85-29286 *	NASA-CASE-LAR-13586-1	c 16	N92-10035 *
NASA-CASE-LAR-12375-1	c 32	N79-24203 *	NASA-CASE-LAR-13053-1	c 43	N83-29783 *	NASA-CASE-LAR-13597-1-CU	c 25	N87-23713 *
NASA-CASE-LAR-12393-1	c 34	N83-34221 *	NASA-CASE-LAR-13065-1	c 35	N85-20295 *	NASA-CASE-LAR-13601-1-CU	c 27	N89-14337 *
NASA-CASE-LAR-12396-1	c 02	N84-28732 *	NASA-CASE-LAR-13076-1	c 08	N85-35200 *	NASA-CASE-LAR-13616-1	c 74	N91-31950 *
NASA-CASE-LAR-12406-1	c 05	N81-26114 *	NASA-CASE-LAR-13081-1	c 37	N86-32737 *	NASA-CASE-LAR-13616-3	c 74	N92-29158 *
NASA-CASE-LAR-12412-1	c 08	N82-24205 *	NASA-CASE-LAR-13098-1	c 31	N86-19479 *	NASA-CASE-LAR-13628-1	c 35	N90-23707 *
NASA-CASE-LAR-12441-1	c 09	N82-23254 *	NASA-CASE-LAR-13100-1	c 37	N87-23982 *	NASA-CASE-LAR-13629-1	c 09	N91-14356 *
NASA-CASE-LAR-12458-1	c 44	N83-21503 *	NASA-CASE-LAR-13111-1-CU	c 71	N87-21652 *	NASA-CASE-LAR-13630-1	c 08	N88-23809 *
NASA-CASE-LAR-12465-1	c 33	N82-26572 *	NASA-CASE-LAR-13113-1	c 31	N87-25492 *	NASA-CASE-LAR-13632-1	c 26	N87-29650 *
NASA-CASE-LAR-12468-1	c 08	N82-32373 *	NASA-CASE-LAR-13117-1	c 37	N86-25789 *	NASA-CASE-LAR-13633-1	c 27	N87-24575 *
NASA-CASE-LAR-12469-1	c 35	N83-21311 *	NASA-CASE-LAR-13118-2	c 27	N87-16907 *	NASA-CASE-LAR-13638-1	c 31	N90-19427 *
NASA-CASE-LAR-12471-1	c 52	N82-29862 *	NASA-CASE-LAR-13134-2	c 07	N87-16828 *	NASA-CASE-LAR-13645-1	c 27	N91-28424 *
NASA-CASE-LAR-12474-1	c 35	N82-26628 *	NASA-CASE-LAR-13135-1	c 27	N86-19456 *	NASA-CASE-LAR-13662-1	c 37	N88-14359 *
NASA-CASE-LAR-12482-1	c 37	N82-32732 *	NASA-CASE-LAR-13150-1	c 24	N87-27742 *	NASA-CASE-LAR-13669-1	c 27	N92-29157 *
NASA-CASE-LAR-12495-1	c 44	N83-28573 *	NASA-CASE-LAR-13151-1	c 33	N87-21235 *	NASA-CASE-LAR-13678-1	c 76	N90-24168 *
NASA-CASE-LAR-12513-1	c 44	N82-32841 *	NASA-CASE-LAR-13153-1	c 71	N86-21276 *	NASA-CASE-LAR-13680-1	c 35	N87-25561 *
NASA-CASE-LAR-12518-1	c 06	N86-27280 *	NASA-CASE-LAR-13155-1	c 05	N86-19310 *	NASA-CASE-LAR-13689-1-NP	c 35	N87-23941 *
NASA-CASE-LAR-12520-1	c 51	N81-28698 *	NASA-CASE-LAR-13169-1	c 37	N86-25791 *	NASA-CASE-LAR-13696-1	c 37	N90-20409 *
NASA-CASE-LAR-12531-1	c 35	N83-29651 *	NASA-CASE-LAR-13173-1	c 05	N87-14314 *	NASA-CASE-LAR-13705-1	c 39	N88-25011 *
NASA-CASE-LAR-12532-1	c 09	N82-11088 *	NASA-CASE-LAR-13181-1	c 31	N85-29083 *	NASA-CASE-LAR-13710-1	c 35	N90-17117 *
NASA-CASE-LAR-12541-1	c 05	N84-22551 *	NASA-CASE-LAR-13198-1	c 37	N87-23983 *	NASA-CASE-LAR-13719-1	c 37	N89-12867 *
NASA-CASE-LAR-12552-1	c 35	N82-11431 *	NASA-CASE-LAR-13202-1	c 33	N88-23942 *	NASA-CASE-LAR-13724-1	c 38	N90-23756 *
NASA-CASE-LAR-12562-1	c 08	N81-26152 *	NASA-CASE-LAR-13215-1	c 02	N89-14224 *	NASA-CASE-LAR-13732-1	c 27	N87-25474 *
NASA-CASE-LAR-12588-1	c 34	N85-21568 *	NASA-CASE-LAR-13220-1	c 34	N86-12547 *	NASA-CASE-LAR-13734-1-CU	c 09	N90-20096 *
NASA-CASE-LAR-12592-1	c 36	N82-13415 *	NASA-CASE-LAR-13225-1	c 24	N90-25197 *	NASA-CASE-LAR-13738-1	c 18	N87-29586 *
NASA-CASE-LAR-12595-1	c 33	N82-26571 *	NASA-CASE-LAR-13226-1	c 27	N85-34282 *	NASA-CASE-LAR-13740-1	c 35	N90-22770 *
NASA-CASE-LAR-12602-1	c 39	N83-32081 *	NASA-CASE-LAR-13230-1	c 24	N84-34571 *	NASA-CASE-LAR-13741-1-SB	c 25	N90-20180 *
NASA-CASE-LAR-12615-1	c 05	N84-12154 *	NASA-CASE-LAR-13233-1	c 05	N84-33400 *	NASA-CASE-LAR-13742-1	c 02	N92-21588 *
NASA-CASE-LAR-12620-1	c 24	N82-32417 *	NASA-CASE-LAR-13243-1	c 35	N85-34375 *	NASA-CASE-LAR-13747-1-CU	c 32	N89-28672 *
NASA-CASE-LAR-12624-1	c 01	N83-35992 *	NASA-CASE-LAR-13250-1	c 37	N86-27630 *	NASA-CASE-LAR-13761-1	c 34	N90-20323 *
NASA-CASE-LAR-12630-1	c 06	N84-27733 *	NASA-CASE-LAR-13254-1-CU	c 35	N86-29174 *	NASA-CASE-LAR-13772-1	c 36	N92-31788 *
NASA-CASE-LAR-12633-1	c 33	N82-24416 *	NASA-CASE-LAR-13255-1	c 02	N87-16793 *	NASA-CASE-LAR-13773-1	c 20	N90-19298 *
NASA-CASE-LAR-12638-1	c 04	N84-14132 *	NASA-CASE-LAR-13256-1	c 36	N86-29204 *	NASA-CASE-LAR-13775-1	c 35	N90-23706 *
NASA-CASE-LAR-12640-1	c 27	N82-11206 *	NASA-CASE-LAR-13257-1	c 25	N84-32447 *	NASA-CASE-LAR-13776-1	c 35	N88-29149 *
NASA-CASE-LAR-12642-1	c 27	N81-29229 *	NASA-CASE-LAR-13262-1	c 23	N85-28973 *	NASA-CASE-LAR-13777-1	c 05	N90-20078 *
NASA-CASE-LAR-12644-1	c 37	N84-28084 *	NASA-CASE-LAR-13268-1	c 35	N87-14669 *	NASA-CASE-LAR-13780-1	c 18	N92-33013 *
NASA-CASE-LAR-12650-1	c 52	N84-28388 *	NASA-CASE-LAR-13273-2	c 33	N90-20320 *	NASA-CASE-LAR-13785-1	c 70	N91-21824 *
NASA-CASE-LAR-12650-2	c 52	N84-28389 *	NASA-CASE-LAR-13280-1	c 08	N87-20999 *	NASA-CASE-LAR-13797-1	c 35	N88-30108 *
NASA-CASE-LAR-12654-1	c 33	N83-36357 *	NASA-CASE-LAR-13286-1	c 02	N88-14071 *	NASA-CASE-LAR-13798-1	c 32	N89-25363 *
NASA-CASE-LAR-12659-1	c 33	N82-26570 *	NASA-CASE-LAR-13292-1	c 27	N86-24841 *	NASA-CASE-LAR-13805-1	c 37	N92-30097 *
NASA-CASE-LAR-12686-1	c 35	N84-14491 *	NASA-CASE-LAR-13294-1	c 35	N86-32696 *	NASA-CASE-LAR-13816-1	c 35	N90-22025 *
NASA-CASE-LAR-12705-1	c 25	N82-26396 *	NASA-CASE-LAR-13300-1-CU	c 35	N89-14407 *	NASA-CASE-LAR-13817-1	c 26	N90-21170 *
NASA-CASE-LAR-12706-1	c 35	N84-12444 *	NASA-CASE-LAR-13306-1	c 82	N87-29372 *	NASA-CASE-LAR-13817-2	c 39	N92-29155 *
NASA-CASE-LAR-12709-1	c 35	N82-28604 *	NASA-CASE-LAR-13310-1	c 32	N87-14559 *	NASA-CASE-LAR-13817-4	c 39	N92-29101 *
NASA-CASE-LAR-12719-1	c 44	N83-34449 *	NASA-CASE-LAR-13316-1	c 27	N86-27450 *	NASA-CASE-LAR-13821-1	c 39	N92-28757 *
NASA-CASE-LAR-12720-1	c 44	N83-21504 *	NASA-CASE-LAR-13316-2	c 27	N87-14515 *		c 27	N90-16950 *

NASA-CASE-LAR-13823-1	c 35	N92-10182 *	#	NASA-CASE-LAR-14446-1	c 31	N92-33020 *	NASA-CASE-LEW-11058-1	c 20	N74-13502 *
NASA-CASE-LAR-13825-1	c 31	N92-16162 *		NASA-CASE-LAR-14454-1	c 25	N91-32196 *	NASA-CASE-LEW-11065-2	c 44	N76-14600 *
NASA-CASE-LAR-13826-1	c 35	N88-29150 *		NASA-CASE-LAR-14457-1-CU	c 27	N92-11198 *	NASA-CASE-LEW-11069-1	c 44	N74-14784 *
NASA-CASE-LAR-13832-1	c 28	N91-28444 *	#	NASA-CASE-LAR-14459-1	c 24	N91-15334 *	NASA-CASE-LEW-11072-1	c 14	N73-24472 *
NASA-CASE-LAR-13853-1	c 35	N89-14423 *		NASA-CASE-LAR-14465-1	c 37	N91-14614 *	NASA-CASE-LEW-11072-2	c 35	N76-15434 *
NASA-CASE-LAR-13854-1-CU	c 04	N91-31120 *		NASA-CASE-LAR-14480-1-CU	c 39	N92-11374 *	NASA-CASE-LEW-11076-1	c 37	N74-21061 *
NASA-CASE-LAR-13855-1	c 37	N91-14615 *		NASA-CASE-LAR-14481-1	c 25	N92-16043 *	NASA-CASE-LEW-11076-2	c 37	N74-32921 *
NASA-CASE-LAR-13870-1-CU	c 05	N92-21587 *		NASA-CASE-LAR-14483-1	c 31	N91-28455 *	NASA-CASE-LEW-11076-3	c 37	N75-30562 *
NASA-CASE-LAR-13875-1	c 05	N91-27156 *		NASA-CASE-LAR-14487-1	c 27	N92-11200 *	NASA-CASE-LEW-11076-4	c 37	N76-15461 *
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NASA-CASE-LAR-13889-1	c 39	N88-30160 *	#	NASA-CASE-LAR-14508-1-CU	c 39	N92-10202 *	NASA-CASE-LEW-11087-2	c 37	N74-15128 *
NASA-CASE-LAR-13898-1	c 37	N91-15544 *		NASA-CASE-LAR-14515-1-CU	c 37	N92-33031 *	NASA-CASE-LEW-11087-3	c 37	N74-21064 *
NASA-CASE-LAR-13901-1-NP	c 52	N90-21519 *		NASA-CASE-LAR-14520-1-SB	c 02	N92-10008 *	NASA-CASE-LEW-11101-1	c 31	N73-32750 *
NASA-CASE-LAR-13901-2	c 52	N92-11621 *		NASA-CASE-LAR-14538-1	c 27	N92-11201 *	NASA-CASE-LEW-11118-1	c 20	N74-32919 *
NASA-CASE-LAR-13902-1	c 27	N90-23546 *		NASA-CASE-LAR-14542-1	c 37	N92-11354 *	NASA-CASE-LEW-11118-2	c 20	N76-14191 *
NASA-CASE-LAR-13910-2-CU	c 27	N91-31307 *		NASA-CASE-LAR-14547-1	c 34	N92-17909 *	NASA-CASE-LEW-11152-1	c 15	N73-32359 *
NASA-CASE-LAR-13924-1-CU	c 26	N89-28621 *		NASA-CASE-LAR-14556-1	c 36	N91-25392 *	NASA-CASE-LEW-11158-1	c 37	N77-28486 *
NASA-CASE-LAR-13925-1	c 27	N92-21711 *		NASA-CASE-LAR-14559-1	c 38	N92-29829 *	NASA-CASE-LEW-11159-1	c 14	N73-28488 *
NASA-CASE-LAR-13926-1	c 37	N90-22042 *		NASA-CASE-LAR-14565-1-CU	c 37	N92-34212 *	NASA-CASE-LEW-11162-1	c 33	N74-12913 *
NASA-CASE-LAR-13944-1	c 35	N92-11338 *	#	NASA-CASE-LAR-14567-1-CU	c 33	N92-33021 *	NASA-CASE-LEW-11169-1	c 37	N76-23570 *
NASA-CASE-LAR-13950-1	c 60	N92-30541 *	#	NASA-CASE-LAR-14568-1	c 74	N92-30312 *	NASA-CASE-LEW-11179-1	c 27	N76-16229 *
NASA-CASE-LAR-13952-1-SB	c 34	N90-19534 *		NASA-CASE-LAR-14579-1	c 35	N92-29097 *	NASA-CASE-LEW-11180-1	c 25	N73-25760 *
NASA-CASE-LAR-13952-2-SB	c 34	N91-31596 *		NASA-CASE-LAR-14588-1-CU	c 74	N92-29117 *	NASA-CASE-LEW-11187-1	c 28	N73-19793 *
NASA-CASE-LAR-13963-1	c 76	N90-24150 *		NASA-CASE-LAR-14607-1SB	c 74	N92-30029 *	NASA-CASE-LEW-11188-1	c 02	N74-20646 *
NASA-CASE-LAR-13965-1-CU	c 23	N90-21118 *		NASA-CASE-LAR-14608-1	c 27	N92-17676 *	NASA-CASE-LEW-11192-1	c 09	N73-13208 *
NASA-CASE-LAR-13965-2-CU	c 23	N91-14418 *		NASA-CASE-LAR-14612-1	c 34	N92-29954 *	NASA-CASE-LEW-11227-1	c 73	N75-30876 *
NASA-CASE-LAR-13966-1	c 71	N91-27914 *		NASA-CASE-LAR-14626-1	c 38	N92-17859 *	NASA-CASE-LEW-11262-1	c 27	N74-13270 *
NASA-CASE-LAR-13968-1	c 71	N91-27913 *		NASA-CASE-LAR-14639-1	c 27	N92-11199 *	NASA-CASE-LEW-11267-1	c 17	N73-32414 *
NASA-CASE-LAR-13981-1	c 37	N91-21539 *		NASA-CASE-LAR-14643-1	c 27	N92-29953 *	NASA-CASE-LEW-11274-1	c 37	N75-21631 *
NASA-CASE-LAR-13983-1	c 05	N90-23390 *		NASA-CASE-LAR-14651-1	c 82	N92-30386 *	NASA-CASE-LEW-11286-1	c 07	N74-27490 *
NASA-CASE-LAR-13985-1	c 24	N91-14430 *		NASA-CASE-LAR-14654-1	c 39	N92-30317 *	NASA-CASE-LEW-11325-1	c 06	N73-27980 *
NASA-CASE-LAR-13988-1	c 23	N89-11814 *	#	NASA-CASE-LAR-14678-2	c 32	N92-31150 *	NASA-CASE-LEW-11326-1	c 23	N73-30665 *
NASA-CASE-LAR-13989-1	c 35	N91-13694 *		NASA-CASE-LAR-14682-1	c 34	N92-30387 *	NASA-CASE-LEW-11358	c 03	N71-26084 *
NASA-CASE-LAR-13992-1-CU	c 23	N91-27220 *		NASA-CASE-LAR-14685-1	c 02	N92-34172 *	NASA-CASE-LEW-11359-2	c 03	N72-20034 *
NASA-CASE-LAR-13996-1-SB	c 25	N90-15161 *	#	NASA-CASE-LAR-14698-1	c 39	N92-30028 *	NASA-CASE-LEW-11359	c 03	N71-28579 *
NASA-CASE-LAR-14001-1	c 27	N92-33008 *		NASA-CASE-LAR-14724-1	c 35	N92-30030 *	NASA-CASE-LEW-11387-1	c 37	N74-18128 *
NASA-CASE-LAR-14031-1	c 05	N90-20079 *		NASA-CASE-LAR-14741-1	c 39	N92-11384 *	NASA-CASE-LEW-11388-1	c 15	N73-32358 *
NASA-CASE-LAR-14033-1	c 34	N92-28752 *		NASA-CASE-LAR-14753-1	c 27	N92-30313 *	NASA-CASE-LEW-11388-2	c 37	N74-21055 *
NASA-CASE-LAR-14033-2	c 34	N92-30024 *	#	NASA-CASE-LAR-14763-1	c 27	N92-12121 *	NASA-CASE-LEW-11390-2	c 25	N76-27383 *
NASA-CASE-LAR-14036-1	c 27	N91-13562 *	#	NASA-CASE-LAR-14773-1-CU	c 27	N92-10105 *	NASA-CASE-LEW-11390-3	c 25	N76-29379 *
NASA-CASE-LAR-14046-1	c 31	N92-11219 *	#	NASA-CASE-LAR-14775-1	c 39	N92-30099 *	NASA-CASE-LEW-11402-1	c 07	N74-18226 *
NASA-CASE-LAR-14048-1	c 31	N92-11220 *	#	NASA-CASE-LAR-14779-1	c 74	N92-29951 *	NASA-CASE-LEW-11484-1	c 24	N75-33181 *
NASA-CASE-LAR-14049-1	c 07	N89-23466 *	#	NASA-CASE-LAR-14789-1	c 37	N92-30388 *	NASA-CASE-LEW-11496-1	c 44	N73-14580 *
NASA-CASE-LAR-14050-1	c 31	N90-21216 *		NASA-CASE-LAR-14811-1	c 33	N92-30389 *	NASA-CASE-LEW-11531	c 15	N71-14932 *
NASA-CASE-LAR-14056-1	c 35	N90-23713 *		NASA-CASE-LAR-14815-1-CU	c 34	N92-29830 *	NASA-CASE-LEW-11549-1	c 44	N77-19571 *
NASA-CASE-LAR-14078-1-CU	c 34	N90-27071 *	#	NASA-CASE-LAR-14824-1-SB	c 34	N92-30390 *	NASA-CASE-LEW-11569-1	c 07	N74-15453 *
NASA-CASE-LAR-14088-1-CU	c 35	N92-33016 *		NASA-CASE-LAR-14954-1	c 24	N92-34214 *	NASA-CASE-LEW-11573-1	c 26	N77-28265 *
NASA-CASE-LAR-14096-1	c 31	N91-31476 *					NASA-CASE-LEW-11581-1	c 54	N75-13531 *
NASA-CASE-LAR-14101-1	c 27	N91-15403 *		NASA-CASE-LEW-10106-1	c 28	N71-26642 *	NASA-CASE-LEW-11583-1	c 35	N79-17192 *
NASA-CASE-LAR-14107-1	c 24	N91-25200 *		NASA-CASE-LEW-10155-1	c 09	N71-29035 *	NASA-CASE-LEW-11593-1	c 20	N76-14190 *
NASA-CASE-LAR-14116-1	c 05	N91-14345 *		NASA-CASE-LEW-10199-1	c 27	N74-23125 *	NASA-CASE-LEW-11617-1	c 33	N74-10195 *
NASA-CASE-LAR-14142-1	c 37	N90-27116 *	#	NASA-CASE-LEW-10210-1	c 28	N71-26781 *	NASA-CASE-LEW-11632-2	c 35	N75-13213 *
NASA-CASE-LAR-14145-1	c 27	N92-28751 *		NASA-CASE-LEW-10219-1	c 18	N71-28729 *	NASA-CASE-LEW-11646-1	c 20	N74-31269 *
NASA-CASE-LAR-14149-1-SB	c 14	N91-21176 *		NASA-CASE-LEW-10233	c 10	N71-27126 *	NASA-CASE-LEW-11669-1	c 05	N73-27062 *
NASA-CASE-LAR-14155-1-SB	c 25	N90-23517 *		NASA-CASE-LEW-10250-1	c 22	N71-28759 *	NASA-CASE-LEW-11672-1	c 37	N74-27904 *
NASA-CASE-LAR-14155-2-SB	c 25	N91-21270 *		NASA-CASE-LEW-10278-1	c 15	N71-28582 *	NASA-CASE-LEW-11676-1	c 37	N76-22541 *
NASA-CASE-LAR-14156-1	c 16	N90-16781 *	#	NASA-CASE-LEW-10281-1	c 14	N72-17327 *	NASA-CASE-LEW-11694-1	c 20	N75-18310 *
NASA-CASE-LAR-14159-1-CU	c 27	N92-31792 *		NASA-CASE-LEW-10286-1	c 28	N71-28915 *	NASA-CASE-LEW-11694-2	c 37	N76-14461 *
NASA-CASE-LAR-14162-1	c 27	N90-15259 *	#	NASA-CASE-LEW-10326-3	c 37	N74-10474 *	NASA-CASE-LEW-11696-1	c 37	N75-13261 *
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NASA-CASE-LAR-14168-1	c 39	N92-34174 *		NASA-CASE-LEW-10330-1	c 09	N72-27226 *	NASA-CASE-LEW-11726-1	c 26	N73-26752 *
NASA-CASE-LAR-14169-1	c 37	N92-17677 *	#	NASA-CASE-LEW-10345-1	c 10	N71-25899 *	NASA-CASE-LEW-11855-1	c 07	N78-25090 *
NASA-CASE-LAR-14181-1	c 76	N91-21911 *		NASA-CASE-LEW-10359-2	c 33	N73-25952 *	NASA-CASE-LEW-11860-1	c 37	N76-18458 *
NASA-CASE-LAR-14186-1	c 27	N90-23545 *		NASA-CASE-LEW-10359	c 33	N72-25911 *	NASA-CASE-LEW-11866-1	c 72	N76-15860 *
NASA-CASE-LAR-14188-2	c 23	N91-14419 *		NASA-CASE-LEW-10364-1	c 09	N71-13522 *	NASA-CASE-LEW-11873-1	c 37	N79-22475 *
NASA-CASE-LAR-14194-1	c 24	N90-15148 *	#	NASA-CASE-LEW-10374-1	c 28	N73-13773 *	NASA-CASE-LEW-11876-1	c 20	N76-21276 *
NASA-CASE-LAR-14198-1	c 27	N90-26956 *	#	NASA-CASE-LEW-10387	c 09	N72-22201 *	NASA-CASE-LEW-11877-1	c 34	N78-27357 *
NASA-CASE-LAR-14203-1	c 36	N89-28817 *	#	NASA-CASE-LEW-10393-1	c 17	N71-15468 *	NASA-CASE-LEW-11881-1	c 33	N77-17354 *
NASA-CASE-LAR-14206-1	c 27	N91-28425 *	#	NASA-CASE-LEW-10424-2-2	c 18	N72-25539 *	NASA-CASE-LEW-11890-1	c 05	N79-24976 *
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NASA-CASE-LAR-14212-1-CU	c 05	N91-31140 *		NASA-CASE-LEW-10436-1	c 17	N73-32415 *	NASA-CASE-LEW-11925-1	c 37	N75-31446 *
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NASA-CASE-LAR-14232-1	c 09	N92-34213 *	#	NASA-CASE-LEW-10518-1	c 24	N72-33681 *	NASA-CASE-LEW-11930-4	c 24	N79-17916 *
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NASA-CASE-LAR-14271-1-CU	c 27	N91-13558 *	#	NASA-CASE-LEW-10533-2	c 37	N74-11300 *	NASA-CASE-LEW-11978-1	c 33	N77-26385 *
NASA-CASE-LAR-14272-1-CU	c 14	N91-28184 *	#	NASA-CASE-LEW-10689-1	c 28	N71-26173 *	NASA-CASE-LEW-11981-1	c 31	N78-17237 *
NASA-CASE-LAR-14281-1	c 02	N92-28729 *		NASA-CASE-LEW-10698-1	c 37	N74-21063 *	NASA-CASE-LEW-11981-2	c 34	N79-20336 *
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NASA-CASE-LAR-14346-1	c 27	N92-22044 *		NASA-CASE-LEW-10814-1	c 28	N70-35422 *	NASA-CASE-LEW-12053-1	c 27	N78-15276 *
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NASA-CASE-LAR-14361-1	c 71	N91-16707 *	#	NASA-CASE-LEW-10874-1	c 17	N72-22535 *	NASA-CASE-LEW-12081-1	c 28	N78-24365 *
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NASA-CASE-LAR-14398-1	c 25	N92-30098 *	#	NASA-CASE-LEW-10920-1	c 17	N73-24569 *	NASA-CASE-LEW-12081-3	c 28	N81-14103 *
NASA-CASE-LAR-14402-1-CU	c 74	N92-33017 *		NASA-CASE-LEW-10950-1	c 33	N74-27683 *	NASA-CASE-LEW-12082-1	c 20	N77-10148 *
NASA-CASE-LAR-14418-1	c 32	N92-31257 *	#	NASA-CASE-LEW-10965-1	c 15	N72-25452 *	NASA-CASE-LEW-12083-1	c 37	N78-13436 *
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NASA-CASE-LAR-14424-1-SB	c 09	N91-32149 *	#	NASA-CASE-LEW-11005-1	c 09	N72-21243 *	NASA-CASE-LEW-12095-1	c 26	N78-18182 *
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NASA-CASE-LEW-12119-2	c 37	N81-26447 *	NASA-CASE-LEW-12971-1	c 07	N80-18039 *	NASA-CASE-LEW-14028-1	c 44	N86-19721 *
NASA-CASE-LEW-12131-1	c 37	N79-18318 *	NASA-CASE-LEW-12972-1	c 44	N79-25481 *	NASA-CASE-LEW-14035-1	c 07	N84-24577 *
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NASA-CASE-LEW-12131-3	c 37	N82-19540 *	NASA-CASE-LEW-12989-1	c 37	N82-12442 *	NASA-CASE-LEW-14039-1	c 34	N85-33433 *
NASA-CASE-LEW-12137-1	c 25	N78-10224 *	NASA-CASE-LEW-12990-1	c 07	N81-29129 *	NASA-CASE-LEW-14057-1	c 24	N85-35233 *
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NASA-CASE-LEW-12217-1	c 43	N78-14452 *	NASA-CASE-LEW-13050-1	c 07	N79-14095 *	NASA-CASE-LEW-14080-1	c 31	N85-20153 *
NASA-CASE-LEW-12220-1	c 44	N77-14581 *	NASA-CASE-LEW-13088-1	c 26	N81-25188 *	NASA-CASE-LEW-14104-2	c 26	N88-14179 *
NASA-CASE-LEW-12232-1	c 07	N79-10057 *	NASA-CASE-LEW-13101-2	c 23	N81-29160 *	NASA-CASE-LEW-14108-1	c 33	N87-28832 *
NASA-CASE-LEW-12236-2	c 44	N79-14528 *	NASA-CASE-LEW-13102-1	c 33	N85-29144 *	NASA-CASE-LEW-14124-1	c 35	N90-23712 *
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NASA-CASE-LEW-12252-1	c 34	N79-13288 *	NASA-CASE-LEW-13107-1	c 52	N83-21785 *	NASA-CASE-LEW-14130-1	c 31	N86-32587 *
NASA-CASE-LEW-12253-1	c 74	N83-19596 *	NASA-CASE-LEW-13107-2	c 52	N84-23095 *	NASA-CASE-LEW-14134-2	c 26	N89-14303 *
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NASA-CASE-LEW-12270-1	c 26	N77-32280 *	NASA-CASE-LEW-13131-1	c 44	N83-10494 *	NASA-CASE-LEW-14162-3	c 24	N92-34208 *
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NASA-CASE-LEW-12296-1	c 33	N82-26568 *	NASA-CASE-LEW-13135-2	c 27	N81-24257 *	NASA-CASE-LEW-14177-1	c 44	N86-32875 *
NASA-CASE-LEW-12312-1	c 07	N77-32148 *	NASA-CASE-LEW-13142-1	c 07	N83-36029 *	NASA-CASE-LEW-14196-2	c 37	N87-25585 *
NASA-CASE-LEW-12313-1	c 37	N78-10468 *	NASA-CASE-LEW-13142-2	c 07	N86-20389 *	NASA-CASE-LEW-14203-1	c 27	N91-15402 *
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NASA-CASE-LEW-12321-1	c 37	N78-10467 *	NASA-CASE-LEW-13148-2	c 44	N81-29524 *	NASA-CASE-LEW-14262-1	c 26	N87-28647 *
NASA-CASE-LEW-12358-1	c 44	N79-17313 *	NASA-CASE-LEW-13150-1	c 44	N79-26474 *	NASA-CASE-LEW-14295-1	c 31	N91-15424 *
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NASA-CASE-LEW-12378-1	c 07	N79-14097 *	NASA-CASE-LEW-13171-1	c 44	N82-29708 *	NASA-CASE-LEW-14345-2	c 25	N90-23497 *
NASA-CASE-LEW-12389-2	c 07	N78-18066 *	NASA-CASE-LEW-13171-2	c 44	N83-32176 *	NASA-CASE-LEW-14345-3	c 23	N91-17141 *
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NASA-CASE-LEW-12390-1	c 07	N78-17056 *	NASA-CASE-LEW-13199-1	c 07	N82-26293 *	NASA-CASE-LEW-14345-6	c 23	N92-17882 *
NASA-CASE-LEW-12419-1	c 07	N77-14025 *	NASA-CASE-LEW-13201-1	c 07	N81-14999 *	NASA-CASE-LEW-14346-1	c 23	N90-19300 *
NASA-CASE-LEW-12441-1	c 34	N79-13289 *	NASA-CASE-LEW-13226-1	c 27	N81-17260 *	NASA-CASE-LEW-14374-1	c 09	N88-28939 *
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NASA-CASE-LEW-12443-1	c 44	N83-32175 *	NASA-CASE-LEW-13268-2	c 37	N82-26674 *	NASA-CASE-LEW-14472-1	c 24	N91-15320 *
NASA-CASE-LEW-12444-1	c 33	N77-28385 *	NASA-CASE-LEW-13269-1	c 18	N83-20996 *	NASA-CASE-LEW-14474-1	c 27	N91-28423 *
NASA-CASE-LEW-12445-1	c 37	N81-22360 *	NASA-CASE-LEW-13269-2	c 37	N84-22957 *	NASA-CASE-LEW-14474-2	c 27	N92-11186 *
NASA-CASE-LEW-12452-1	c 07	N78-25089 *	NASA-CASE-LEW-13282-1	c 33	N82-24415 *	NASA-CASE-LEW-14520-1	c 33	N90-22724 *
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NASA-CASE-MFS-19796-1	c 37	N86-32736 *	#	NASA-CASE-MFS-21109-1	c 05	N73-27941 *	NASA-CASE-MFS-22938-1	c 34	N76-18374 *
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NASA-CASE-MFS-20044	c 14	N71-26993 *		NASA-CASE-MFS-21136-1	c 35	N74-18323 *	NASA-CASE-MFS-23001-1	c 76	N77-32919 *
NASA-CASE-MFS-20068	c 07	N71-27191 *		NASA-CASE-MFS-21163-1	c 54	N74-17853 *	NASA-CASE-MFS-23008-1	c 35	N78-18390 *
NASA-CASE-MFS-20074	c 16	N71-15565 *		NASA-CASE-MFS-21214-1	c 09	N73-30181 *	NASA-CASE-MFS-23047-1	c 37	N76-18454 *
NASA-CASE-MFS-20075	c 09	N71-26133 *		NASA-CASE-MFS-21233-1	c 38	N74-15395 *	NASA-CASE-MFS-23051-1	c 37	N79-10422 *
NASA-CASE-MFS-20095	c 24	N72-11595 *		NASA-CASE-MFS-21244-1	c 36	N75-15028 *	NASA-CASE-MFS-23052-2	c 74	N79-13855 *
NASA-CASE-MFS-20096	c 14	N71-30026 *		NASA-CASE-MFS-21309-1	c 37	N74-18125 *	NASA-CASE-MFS-23059-1	c 44	N76-27664 *
NASA-CASE-MFS-20125	c 16	N72-13437 *		NASA-CASE-MFS-21311-1	c 20	N76-21275 *	NASA-CASE-MFS-23062-1	c 37	N77-12402 *
NASA-CASE-MFS-20130	c 28	N71-27585 *		NASA-CASE-MFS-21362	c 11	N73-20267 *	NASA-CASE-MFS-23074-1	c 54	N77-21844 *
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NASA-CASE-MFS-20243	c 23	N73-13662 *		NASA-CASE-MFS-21395-1	c 25	N74-26948 *	NASA-CASE-MFS-23167-1	c 44	N76-31667 *
NASA-CASE-MFS-20249	c 15	N72-11386 *		NASA-CASE-MFS-21415-1	c 52	N74-20728 *	NASA-CASE-MFS-23175-1	c 35	N77-30436 *
NASA-CASE-MFS-20261	c 14	N71-27005 *		NASA-CASE-MFS-21424-1	c 34	N74-27730 *	NASA-CASE-MFS-23178-1	c 35	N77-10493 *
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NASA-CASE-MFS-20299	c 15	N72-11392 *		NASA-CASE-MFS-21441-1	c 14	N73-30392 *	NASA-CASE-MFS-23194-1	c 35	N78-17357 *
NASA-CASE-MFS-20317	c 15	N73-13463 *		NASA-CASE-MFS-21455-1	c 35	N74-15146 *	NASA-CASE-MFS-23225-1	c 52	N77-14735 *
NASA-CASE-MFS-20325	c 28	N71-27095 *		NASA-CASE-MFS-21462-1	c 33	N74-14935 *	NASA-CASE-MFS-23250-1	c 35	N82-11432 *
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NASA-CASE-MFS-20332	c 05	N72-20097 *		NASA-CASE-MFS-21470-1	c 44	N74-19870 *	NASA-CASE-MFS-23270-1	c 44	N78-25531 *
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NASA-CASE-MFS-20355	c 33	N71-25353 *		NASA-CASE-MFS-21488-1	c 14	N75-24794 *	NASA-CASE-MFS-23281-1	c 35	N77-22450 *
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NASA-CASE-MFS-20386	c 21	N71-19212 *		NASA-CASE-MFS-21556-1	c 35	N74-26945 *	NASA-CASE-MFS-23299-1	c 39	N77-28511 *
NASA-CASE-MFS-20395	c 15	N71-24903 *		NASA-CASE-MFS-21577-1	c 19	N74-29410 *	NASA-CASE-MFS-23303-1	c 32	N77-18307 *
NASA-CASE-MFS-20400	c 31	N71-18611 *		NASA-CASE-MFS-21606-1	c 37	N75-19685 *	NASA-CASE-MFS-23311-1	c 54	N78-17676 *
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NASA-CASE-MFS-23315-1	c 76	N78-24950 *	NASA-CASE-MFS-25750-1	c 32	N86-20647 *	NASA-CASE-MFS-28328-1	c 37	N91-13731 *	#
NASA-CASE-MFS-23345-1	c 27	N77-30237 *	NASA-CASE-MFS-25752-1	c 74	N86-21348 *	NASA-CASE-MFS-28345-1	c 37	N91-14608 *	*
NASA-CASE-MFS-23349-1	c 44	N79-23481 *	NASA-CASE-MFS-25754-1	c 35	N84-28018 *	NASA-CASE-MFS-28345-2	c 37	N89-28842 *	#
NASA-CASE-MFS-23362-1	c 47	N77-10753 *	NASA-CASE-MFS-25786-2	c 76	N90-20896 *	NASA-CASE-MFS-28368-1	c 75	N90-10717 *	#
NASA-CASE-MFS-23363-1	c 35	N78-32396 *	NASA-CASE-MFS-25791-1	c 09	N84-27749 *	NASA-CASE-MFS-28370-1	c 35	N92-31790 *	*
NASA-CASE-MFS-23405-1	c 26	N77-29260 *	NASA-CASE-MFS-25807-2	c 37	N86-21850 *	NASA-CASE-MFS-28372-1	c 27	N92-16123 *	*
NASA-CASE-MFS-23447-1	c 37	N79-11404 *	NASA-CASE-MFS-25807	c 37	N83-20154 *	NASA-CASE-MFS-28376-1	c 14	N91-21175 *	*
NASA-CASE-MFS-23460-1	c 12	N79-26075 *	NASA-CASE-MFS-25825-1	c 31	N86-29055 *	NASA-CASE-MFS-28383-1	c 34	N91-14563 *	*
NASA-CASE-MFS-23461-1	c 35	N79-10389 *	NASA-CASE-MFS-25828-1	c 71	N84-28568 *	NASA-CASE-MFS-28384-1	c 37	N90-27112 *	#
NASA-CASE-MFS-23506-1	c 24	N78-24290 *	NASA-CASE-MFS-25833-1	c 35	N86-32698 *	NASA-CASE-MFS-28390-1	c 24	N91-15333 *	#
NASA-CASE-MFS-23513-1	c 74	N79-11865 *	NASA-CASE-MFS-25837-1	c 18	N85-29991 *	NASA-CASE-MFS-28406-1	c 37	N91-13729 *	#
NASA-CASE-MFS-23515-1	c 44	N80-21828 *	NASA-CASE-MFS-25842-2	c 37	N86-20788 *	NASA-CASE-MFS-28419-1	c 18	N91-27200 *	*
NASA-CASE-MFS-23518-1	c 44	N79-11469 *	NASA-CASE-MFS-25843-1	c 20	N83-17588 *	NASA-CASE-MFS-28420-1	c 37	N91-21545 *	*
NASA-CASE-MFS-23518-3	c 44	N80-16452 *	NASA-CASE-MFS-25852-1	c 33	N84-33661 *	NASA-CASE-MFS-28421-1	c 18	N92-28750 *	*
NASA-CASE-MFS-23540-1	c 44	N79-26475 *	NASA-CASE-MFS-25853-1	c 16	N84-27784 *	NASA-CASE-MFS-28422-1	c 29	N91-17250 *	#
NASA-CASE-MFS-23541-1	c 76	N79-14906 *	NASA-CASE-MFS-25854-1	c 33	N84-27975 *	NASA-CASE-MFS-28425-1	c 35	N92-33010 *	*
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NASA-CASE-MFS-23564-1	c 15	N78-25119 *	NASA-CASE-MFS-25862-1	c 27	N85-20126 *	NASA-CASE-MFS-28430-1	c 54	N92-24044 *	#
NASA-CASE-MFS-23579-1	c 18	N79-11108 *	NASA-CASE-MFS-25862-2	c 37	N84-33807 *	NASA-CASE-MFS-28431-1	c 24	N91-17870 *	*
NASA-CASE-MFS-23620-1	c 37	N79-10421 *	NASA-CASE-MFS-25868-1	c 33	N86-20670 *	NASA-CASE-MFS-28458-1	c 33	N91-26459 *	#
NASA-CASE-MFS-23626-1	c 24	N80-26388 *	NASA-CASE-MFS-25878-1	c 18	N84-27787 *	NASA-CASE-MFS-28473-1	c 76	N91-26968 *	#
NASA-CASE-MFS-23642-1	c 20	N80-10278 *	NASA-CASE-MFS-25905-2	c 31	N86-21718 *	NASA-CASE-MFS-28481-1	c 54	N92-24056 *	#
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NASA-CASE-MFS-23646-1	c 37	N79-22474 *	NASA-CASE-MFS-25907-1	c 37	N85-34401 *	NASA-CASE-MFS-28493-1	c 09	N91-25155 *	#
NASA-CASE-MFS-23659-1	c 33	N79-17133 *	NASA-CASE-MFS-25910-1	c 39	N86-20841 *	NASA-CASE-MFS-28496-1	c 26	N92-34239 *	#
NASA-CASE-MFS-23674-1	c 24	N81-29163 *	NASA-CASE-MFS-25942-1	c 74	N86-20124 *	NASA-CASE-MFS-28507-1	c 76	N92-34171 *	*
NASA-CASE-MFS-23675-1	c 89	N79-10969 *	NASA-CASE-MFS-25946-1	c 20	N86-26388 *	NASA-CASE-MFS-28521-1	c 37	N91-26542 *	#
NASA-CASE-MFS-23696-1	c 54	N81-26718 *	NASA-CASE-MFS-25949-1	c 37	N86-19603 *	NASA-CASE-MFS-28524-1	c 18	N91-25167 *	#
NASA-CASE-MFS-23717-1	c 52	N81-25660 *	NASA-CASE-MFS-25956-1	c 37	N87-21333 *	NASA-CASE-MFS-28545-1	c 31	N91-25306 *	#
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NASA-CASE-MFS-23776-1	c 33	N82-28545 *	NASA-CASE-MFS-26002-1-CU	c 35	N86-26598 *	NASA-CASE-MFS-29207-1	c 74	N87-25843 *	*
NASA-CASE-MFS-23777-1	c 37	N80-32716 *	NASA-CASE-MFS-26008-1-CU	c 76	N88-14835 *	NASA-CASE-MFS-29241-1	c 24	N90-23480 *	*
NASA-CASE-MFS-23816-1	c 26	N80-23419 *	NASA-CASE-MFS-26009-1-SB	c 54	N88-24163 *	NASA-CASE-MFS-29252-1	c 37	N88-23980 *	*
NASA-CASE-MFS-23825-1	c 51	N81-32829 *	NASA-CASE-MFS-26011-1-SB	c 52	N87-24874 *	NASA-CASE-MFS-29260-1	c 37	N90-19602 *	*
NASA-CASE-MFS-23828-1	c 33	N82-26569 *	NASA-CASE-MFS-26042-1-SB	c 37	N91-14613 *	NASA-CASE-MFS-29291-1	c 37	N89-12868 *	#
NASA-CASE-MFS-23830-1	c 44	N82-24639 *	NASA-CASE-MFS-26047-1	c 29	N90-21209 *	NASA-CASE-MFS-29348-1	c 74	N89-25689 *	*
NASA-CASE-MFS-23845-1	c 33	N81-17348 *	NASA-CASE-MFS-26049-1-NP	c 25	N89-28603 *	NASA-CASE-MFS-29489-1	c 31	N90-23586 *	*
NASA-CASE-MFS-23846-1	c 37	N82-32731 *	NASA-CASE-MFS-26049-2-NP	c 25	N92-28728 *	NASA-CASE-MFS-29491-1	c 31	N90-26168 *	*
NASA-CASE-MFS-23862-1	c 48	N80-18667 *	NASA-CASE-MFS-26050-1	c 27	N92-25397 *	NASA-CASE-MFS-29576-1	c 25	N92-25399 *	#
NASA-CASE-MFS-23883-1	c 51	N80-16715 *	NASA-CASE-MFS-26061-1	c 76	N91-16815 *	NASA-CASE-MFS-29766-1	c 33	N92-33030 *	*
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NASA-CASE-MFS-23999-1	c 44	N81-24520 *	NASA-CASE-MFS-28001-2	c 37	N88-14360 *	NASA-CASE-MSC-10960-1	c 03	N71-24718 *	*
NASA-CASE-MFS-24368-3	c 33	N81-22280 *	NASA-CASE-MFS-28008-1	c 35	N85-20300 *	NASA-CASE-MSC-10966	c 14	N71-19568 *	*
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NASA-CASE-MFS-25050-1	c 71	N81-15767 *	NASA-CASE-MFS-28013-2	c 89	N91-14096 *	NASA-CASE-MSC-11072	c 54	N74-32546 *	*
NASA-CASE-MFS-25134-1	c 31	N83-31895 *	NASA-CASE-MFS-28013-3	c 89	N90-27594 *	NASA-CASE-MSC-11235	c 33	N78-17294 *	*
NASA-CASE-MFS-25139-1	c 34	N82-13376 *	NASA-CASE-MFS-28013-4	c 89	N92-33012 *	NASA-CASE-MSC-11242	c 35	N78-17358 *	*
NASA-CASE-MFS-25181-1	c 27	N82-24340 *	NASA-CASE-MFS-28030-1	c 35	N86-25752 *	NASA-CASE-MSC-11253	c 05	N71-12343 *	*
NASA-CASE-MFS-25208-1	c 33	N83-10345 *	NASA-CASE-MFS-28044-1	c 31	N87-25491 *	NASA-CASE-MSC-11277	c 09	N71-29008 *	*
NASA-CASE-MFS-25209-1	c 33	N83-35227 *	NASA-CASE-MFS-28057-1	c 09	N87-14355 *	NASA-CASE-MSC-11561-1	c 05	N73-32014 *	*
NASA-CASE-MFS-25211-2	c 33	N84-14423 *	NASA-CASE-MFS-28058-1	c 37	N87-21332 *	NASA-CASE-MSC-11817-1	c 15	N71-26611 *	*
NASA-CASE-MFS-25215-1	c 33	N83-31953 *	NASA-CASE-MFS-28059-1	c 37	N86-32738 *	NASA-CASE-MSC-11847-1	c 14	N72-11363 *	*
NASA-CASE-MFS-25242-1	c 35	N83-29650 *	NASA-CASE-MFS-28060-1	c 76	N87-25862 *	NASA-CASE-MSC-11849-1	c 15	N72-22488 *	*
NASA-CASE-MFS-25282-1	c 34	N83-19015 *	NASA-CASE-MFS-28080-1	c 33	N87-21233 *	NASA-CASE-MSC-12033-1	c 09	N71-13531 *	*
NASA-CASE-MFS-25287-1	c 44	N82-18686 *	NASA-CASE-MFS-28087-1	c 35	N87-23944 *	NASA-CASE-MSC-12049	c 31	N71-16080 *	*
NASA-CASE-MFS-25302-1	c 33	N83-28319 *	NASA-CASE-MFS-28090-1	c 27	N87-21111 *	NASA-CASE-MSC-12052-1	c 15	N71-24599 *	*
NASA-CASE-MFS-25302-2	c 33	N84-33660 *	NASA-CASE-MFS-28110-1	c 37	N87-24689 *	NASA-CASE-MSC-12084-1	c 12	N71-17569 *	*
NASA-CASE-MFS-25306-1	c 25	N83-13187 *	NASA-CASE-MFS-28118-1	c 39	N87-25601 *	NASA-CASE-MSC-12086-1	c 05	N71-12345 *	*
NASA-CASE-MFS-25312-1	c 74	N83-17305 *	NASA-CASE-MFS-28122-1	c 72	N88-24253 *	NASA-CASE-MSC-12101	c 09	N71-18720 *	*
NASA-CASE-MFS-25315-1	c 36	N83-29680 *	NASA-CASE-MFS-28137-1	c 76	N88-24544 *	NASA-CASE-MSC-12105-1	c 14	N72-21409 *	*
NASA-CASE-MFS-25319-1	c 60	N85-33701 *	NASA-CASE-MFS-28139-1	c 29	N87-18679 *	NASA-CASE-MSC-12109	c 18	N71-26285 *	*
NASA-CASE-MFS-25323-1	c 33	N84-22886 *	NASA-CASE-MFS-28142-1	c 25	N88-23845 *	NASA-CASE-MSC-12111-1	c 02	N71-11039 *	*
NASA-CASE-MFS-25363-1	c 37	N82-12441 *	NASA-CASE-MFS-28144-1	c 76	N88-24545 *	NASA-CASE-MSC-12116-1	c 15	N71-17648 *	*
NASA-CASE-MFS-25403-1	c 18	N83-29303 *	NASA-CASE-MFS-28153-1	c 31	N86-32589 *	NASA-CASE-MSC-12121-1	c 15	N71-27147 *	*
NASA-CASE-MFS-25405-1	c 35	N84-22929 *	NASA-CASE-MFS-28161-1	c 37	N87-18817 *	NASA-CASE-MSC-12135-1	c 09	N71-12526 *	*
NASA-CASE-MFS-25426-1	c 25	N83-10126 *	NASA-CASE-MFS-28177-1	c 35	N91-21496 *	NASA-CASE-MSC-12139-1	c 28	N71-14058 *	*
NASA-CASE-MFS-25429-1	c 18	N86-20469 *	NASA-CASE-MFS-28182-1	c 76	N90-24169 *	NASA-CASE-MSC-12143-1	c 33	N72-17947 *	*
NASA-CASE-MFS-25430-1	c 33	N84-16453 *	NASA-CASE-MFS-28183-1	c 74	N89-13253 *	NASA-CASE-MSC-12146-1	c 07	N72-17109 *	*
NASA-CASE-MFS-25436-1	c 27	N83-36220 *	NASA-CASE-MFS-28185-1	c 37	N88-23979 *	NASA-CASE-MSC-12165-1	c 07	N71-33696 *	*
NASA-CASE-MFS-25477-1	c 33	N84-14424 *	NASA-CASE-MFS-28192-1	c 37	N90-17154 *	NASA-CASE-MSC-12168-1	c 09	N71-18600 *	*
NASA-CASE-MFS-25509-1	c 35	N83-24828 *	NASA-CASE-MFS-28206-1-SB	c 76	N90-23242 *	NASA-CASE-MSC-12178-1	c 09	N71-13518 *	*
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NASA-CASE-MFS-25616-1	c 33	N84-16455 *	NASA-CASE-MFS-28253-1	c 37	N89-28831 *	NASA-CASE-MSC-12233-2	c 32	N73-13921 *	*
NASA-CASE-MFS-25631-1	c 34	N84-12406 *	NASA-CASE-MFS-28273-1	c 37	N88-23974 *	NASA-CASE-MSC-12239-1	c 52	N79-21750 *	*
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NASA-CASE-MSC-12398	c 05	N72-20098 *	NASA-CASE-MSC-14623-1	c 52	N77-28717 *	NASA-CASE-MSC-19372-1	c 39	N76-31562 *
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NASA-CASE-MSC-21334-1	c 32	N91-25317 *	NASA-CASE-MSC-21961-1	c 35	N92-29952 *	NASA-CASE-NPO-10619-1	c 35	N77-21393 *
NASA-CASE-MSC-21348-1	c 62	N91-14769 *	NASA-CASE-MSC-21967-1	c 37	N92-30026 *	NASA-CASE-NPO-10625	c 09	N71-26182 *
NASA-CASE-MSC-21350-1	c 60	N92-16563 *	NASA-CASE-MSC-25707-1	c 35	N85-29214 *	NASA-CASE-NPO-10629	c 08	N72-18184 *
NASA-CASE-MSC-21354-1	c 37	N88-24969 *	NASA-CASE-MSC-90153-2	c 05	N72-25120 *	NASA-CASE-NPO-10633	c 03	N72-28025 *
NASA-CASE-MSC-21356-1	c 18	N90-19278 *				NASA-CASE-NPO-10634	c 23	N72-25619 *
NASA-CASE-MSC-21360-1	c 18	N91-14374 *	NASA-CASE-NPO-08835-1	c 27	N78-33228 *	NASA-CASE-NPO-10636	c 08	N72-25210 *
NASA-CASE-MSC-21361-1	c 51	N91-21701 *	NASA-CASE-NPO-10003	c 10	N71-26415 *	NASA-CASE-NPO-10637	c 15	N72-12409 *
NASA-CASE-MSC-21364-1	c 54	N89-13889 *	NASA-CASE-NPO-10034	c 15	N71-17685 *	NASA-CASE-NPO-10646	c 15	N71-28467 *
NASA-CASE-MSC-21365-1	c 37	N90-20408 *	NASA-CASE-NPO-10037	c 09	N71-19610 *	NASA-CASE-NPO-10649	c 07	N71-24840 *
NASA-CASE-MSC-21366-1	c 54	N90-25498 *	NASA-CASE-NPO-10046	c 28	N72-17843 *	NASA-CASE-NPO-10671	c 15	N72-20443 *
NASA-CASE-MSC-21372-1	c 35	N89-12842 *	NASA-CASE-NPO-10051	c 18	N71-24934 *	NASA-CASE-NPO-10677	c 05	N72-11084 *
NASA-CASE-MSC-21379-1-SB	c 61	N90-27340 *	NASA-CASE-NPO-10064	c 15	N71-17693 *	NASA-CASE-NPO-10679	c 15	N72-21462 *
NASA-CASE-MSC-21381-1	c 63	N91-13944 *	NASA-CASE-NPO-10066	c 09	N71-18598 *	NASA-CASE-NPO-10680	c 31	N73-14855 *
NASA-CASE-MSC-21384-1	c 34	N92-16243 *	NASA-CASE-NPO-10068	c 08	N71-19288 *	NASA-CASE-NPO-10682	c 15	N70-34699 *
NASA-CASE-MSC-21386-1	c 18	N90-20126 *	NASA-CASE-NPO-10070	c 15	N71-27372 *	NASA-CASE-NPO-10691	c 14	N71-26199 *
NASA-CASE-MSC-21387-1	c 61	N90-16411 *	NASA-CASE-NPO-10096	c 07	N71-24583 *	NASA-CASE-NPO-10694	c 09	N72-20200 *
NASA-CASE-MSC-21408-1	c 37	N91-14607 *	NASA-CASE-NPO-10109	c 03	N71-11049 *	NASA-CASE-NPO-10700	c 07	N71-33613 *
NASA-CASE-MSC-21415-1-SB	c 61	N92-17860 *	NASA-CASE-NPO-10112	c 08	N71-12502 *	NASA-CASE-NPO-10701	c 06	N71-28620 *
NASA-CASE-MSC-21416-1	c 74	N91-32922 *	NASA-CASE-NPO-10117	c 15	N71-15608 *	NASA-CASE-NPO-10704	c 15	N72-20445 *
NASA-CASE-MSC-21420-1	c 18	N92-15114 *	NASA-CASE-NPO-10118	c 07	N71-24741 *	NASA-CASE-NPO-10711-1	c 35	N77-21392 *
NASA-CASE-MSC-21428-1	c 33	N91-14537 *	NASA-CASE-NPO-10122	c 12	N71-17631 *	NASA-CASE-NPO-10714	c 06	N69-31244 *
NASA-CASE-MSC-21434-1	c 37	N92-10197 *	NASA-CASE-NPO-10123	c 15	N71-24835 *	NASA-CASE-NPO-10716	c 09	N71-24892 *
NASA-CASE-MSC-21436-1	c 37	N90-21390 *	NASA-CASE-NPO-10138	c 33	N71-16357 *	NASA-CASE-NPO-10721	c 15	N72-27484 *
NASA-CASE-MSC-21460-1	c 54	N91-13879 *	NASA-CASE-NPO-10140	c 07	N71-24742 *	NASA-CASE-NPO-10722	c 09	N72-20199 *
NASA-CASE-MSC-21463-1	c 37	N92-33018 *	NASA-CASE-NPO-10141	c 11	N71-24964 *	NASA-CASE-NPO-10737	c 28	N72-11709 *
NASA-CASE-MSC-21465-1	c 61	N91-14741 *	NASA-CASE-NPO-10143	c 10	N71-26326 *	NASA-CASE-NPO-10743	c 08	N72-21199 *
NASA-CASE-MSC-21469-1	c 37	N91-31655 *	NASA-CASE-NPO-10144	c 14	N71-17701 *	NASA-CASE-NPO-10745	c 08	N72-22164 *
NASA-CASE-MSC-21470-1	c 09	N91-21157 *	NASA-CASE-NPO-10150	c 08	N71-24650 *	NASA-CASE-NPO-10747	c 03	N72-22042 *
NASA-CASE-MSC-21476-1	c 37	N91-21542 *	NASA-CASE-NPO-10151	c 37	N78-17386 *	NASA-CASE-NPO-10748	c 08	N72-20177 *
NASA-CASE-MSC-21481-1	c 60	N91-13890 *	NASA-CASE-NPO-10158	c 33	N71-16356 *	NASA-CASE-NPO-10753	c 03	N72-26031 *
NASA-CASE-MSC-21487-1	c 25	N92-33009 *	NASA-CASE-NPO-10166-1	c 07	N73-22076 *	NASA-CASE-NPO-10755	c 15	N71-27084 *
NASA-CASE-MSC-21500-1	c 35	N91-21493 *	NASA-CASE-NPO-10166-2	c 35	N76-16391 *	NASA-CASE-NPO-10758	c 14	N73-14427 *
NASA-CASE-MSC-21502-1	c 37	N91-21543 *	NASA-CASE-NPO-10169	c 10	N71-24844 *	NASA-CASE-NPO-10760	c 09	N72-25254 *
NASA-CASE-MSC-21503-1	c 27	N92-10091 *	NASA-CASE-NPO-10173	c 15	N71-24696 *	NASA-CASE-NPO-10764-1	c 14	N73-14428 *
NASA-CASE-MSC-21504-1	c 18	N91-21221 *	NASA-CASE-NPO-10174	c 14	N71-18465 *	NASA-CASE-NPO-10764-2	c 35	N75-25122 *
NASA-CASE-MSC-21509-1	c 74	N91-25840 *	NASA-CASE-NPO-10175	c 14	N71-18625 *	NASA-CASE-NPO-10765	c 06	N72-20121 *
NASA-CASE-MSC-21517-1	c 31	N92-16161 *	NASA-CASE-NPO-10185	c 10	N71-26339 *	NASA-CASE-NPO-10767-1	c 06	N73-33076 *
NASA-CASE-MSC-21529-1	c 27	N92-30100 *	NASA-CASE-NPO-10188	c 03	N71-20273 *	NASA-CASE-NPO-10767-2	c 06	N72-27151 *
NASA-CASE-MSC-21534-1	c 18	N91-21222 *	NASA-CASE-NPO-10189-1	c 33	N77-21314 *	NASA-CASE-NPO-10768-2	c 06	N72-27144 *
NASA-CASE-MSC-21536-1	c 18	N92-21999 *	NASA-CASE-NPO-10194	c 03	N71-20407 *	NASA-CASE-NPO-10768	c 06	N71-27254 *
NASA-CASE-MSC-21539-1	c 37	N91-14610 *	NASA-CASE-NPO-10198	c 09	N71-24806 *	NASA-CASE-NPO-10769	c 08	N72-11171 *
NASA-CASE-MSC-21540-1	c 37	N91-32514 *	NASA-CASE-NPO-10199	c 09	N72-17156 *	NASA-CASE-NPO-10774	c 06	N72-17095 *
NASA-CASE-MSC-21542-1	c 20	N92-15122 *	NASA-CASE-NPO-10201	c 08	N71-18694 *	NASA-CASE-NPO-10778	c 14	N72-11364 *
NASA-CASE-MSC-21549-1	c 34	N91-27504 *	NASA-CASE-NPO-10214	c 10	N71-26577 *	NASA-CASE-NPO-10781-1	c 33	N77-21314 *
NASA-CASE-MSC-21555-1	c 37	N91-23492 *	NASA-CASE-NPO-10230	c 09	N71-12520 *	NASA-CASE-NPO-10790-1	c 33	N77-21316 *
NASA-CASE-MSC-21559-1	c 51	N92-34231 *	NASA-CASE-NPO-10231	c 07	N71-26101 *	NASA-CASE-NPO-10796	c 15	N71-27068 *
NASA-CASE-MSC-21560-1	c 51	N92-34229 *	NASA-CASE-NPO-10233-1	c 74	N78-33913 *	NASA-CASE-NPO-10808	c 15	N71-27432 *
NASA-CASE-MSC-21562-1	c 16	N92-16007 *	NASA-CASE-NPO-10234	c 06	N72-17094 *	NASA-CASE-NPO-10810	c 14	N71-27323 *
NASA-CASE-MSC-21572-1-SB	c 25	N92-28756 *	NASA-CASE-NPO-10242	c 09	N71-24803 *	NASA-CASE-NPO-10812	c 15	N73-13464 *
NASA-CASE-MSC-21577-1-SB	c 25	N91-23271 *	NASA-CASE-NPO-10244	c 15	N72-26371 *	NASA-CASE-NPO-10817-1	c 08	N73-30135 *
NASA-CASE-MSC-21580-1	c 37	N92-21726 *	NASA-CASE-NPO-10250	c 23	N71-16212 *	NASA-CASE-NPO-10821	c 03	N71-19545 *
NASA-CASE-MSC-21584-1	c 25	N92-33029 *	NASA-CASE-NPO-10251	c 10	N71-27365 *	NASA-CASE-NPO-10828	c 33	N72-17948 *
NASA-CASE-MSC-21585-1	c 51	N91-31755 *	NASA-CASE-NPO-10271	c 17	N71-16393 *	NASA-CASE-NPO-10830-1	c 27	N81-15104 *
NASA-CASE-MSC-21589-1	c 54	N92-29137 *	NASA-CASE-NPO-10298	c 12	N71-17661 *	NASA-CASE-NPO-10831	c 33	N72-20915 *
NASA-CASE-MSC-21613-1	c 61	N92-10331 *	NASA-CASE-NPO-10300	c 14	N71-17662 *	NASA-CASE-NPO-10832	c 14	N72-21405 *
NASA-CASE-MSC-21625-1	c 53	N91-28730 *	NASA-CASE-NPO-10301	c 07	N72-11148 *	NASA-CASE-NPO-10844	c 07	N72-20140 *
NASA-CASE-MSC-21629-1	c 54	N91-31803 *	NASA-CASE-NPO-10302	c 10	N71-26142 *	NASA-CASE-NPO-10851	c 07	N71-24613 *
NASA-CASE-MSC-21631-1	c 75	N91-32947 *	NASA-CASE-NPO-10303	c 07	N72-22127 *	NASA-CASE-NPO-10857-1	c 33	N80-14330 *
NASA-CASE-MSC-21632-1	c 54	N92-34210 *	NASA-CASE-NPO-10309	c 15	N69-23190 *	NASA-CASE-NPO-10862	c 06	N72-22107 *
NASA-CASE-MSC-21648-1	c 37	N92-24051 *	NASA-CASE-NPO-10311	c 31	N71-15643 *	NASA-CASE-NPO-10863-2	c 06	N72-25152 *
NASA-CASE-MSC-21662-1	c 51	N92-34232 *	NASA-CASE-NPO-10316-1	c 37	N77-22479 *	NASA-CASE-NPO-10863	c 06	N70-11251 *
NASA-CASE-MSC-21671-1	c 37	N91-32498 *	NASA-CASE-NPO-10320	c 14	N71-17655 *	NASA-CASE-NPO-10866-1	c 28	N79-14228 *
NASA-CASE-MSC-21675-1	c 52	N92-28755 *	NASA-CASE-NPO-10331	c 09	N71-26701 *	NASA-CASE-NPO-10870-1	c 33	N77-22386 *
NASA-CASE-MSC-21700-1	c 35	N92-22039 *	NASA-CASE-NPO-10337	c 14	N71-15604 *	NASA-CASE-NPO-10872-1	c 35	N79-16246 *
NASA-CASE-MSC-21703-1	c 31	N91-25305 *	NASA-CASE-NPO-10342	c 10	N71-33407 *	NASA-CASE-NPO-10883	c 31	N72-22874 *
NASA-CASE-MSC-21721-1	c 54	N92-16559 *	NASA-CASE-NPO-10343	c 07	N71-27341 *	NASA-CASE-NPO-10890	c 11	N73-12265 *
NASA-CASE-MSC-21723-1	c 18	N92-30315 *	NASA-CASE-NPO-10344	c 10	N71-26544 *	NASA-CASE-NPO-10893	c 27	N73-22710 *
NASA-CASE-MSC-21729-1	c 34	N92-16241 *	NASA-CASE-NPO-10348	c 10	N71-12554 *	NASA-CASE-NPO-10895	c 14	N73-20478 *
NASA-CASE-MSC-21730-1	c 37	N91-23493 *	NASA-CASE-NPO-10351	c 08	N71-12503 *	NASA-CASE-NPO-10998-1	c 06	N73-32029 *
NASA-CASE-MSC-21737-1	c 61	N91-13911 *	NASA-CASE-NPO-10373	c 03	N71-18698 *	NASA-CASE-NPO-10999-1	c 06	N73-32029 *
NASA-CASE-MSC-21748-1	c 37	N92-21727 *	NASA-CASE-NPO-10388	c 07	N71-24622 *	NASA-CASE-NPO-11001	c 07	N72-21118 *
NASA-CASE-MSC-21752-1	c 54	N92-17910 *	NASA-CASE-NPO-10401	c 03	N72-20033 *	NASA-CASE-NPO-11002	c 14	N72-22441 *
NASA-CASE-MSC-21759-1	c 25	N92-12079 *	NASA-CASE-NPO-10404	c 03	N71-12255 *	NASA-CASE-NPO-11012	c 15	N72-11391 *
NASA-CASE-MSC-21763-1	c 51	N91-25570 *	NASA-CASE-NPO-10412	c 09	N71-28421 *	NASA-CASE-NPO-11013	c 11	N72-22247 *
NASA-CASE-MSC-21775-1	c 52	N92-11627 *	NASA-CASE-NPO-10416	c 12	N71-27332 *	NASA-CASE-NPO-11016	c 08	N72-31226 *
NASA-CASE-MSC-21776-1	c 31	N92-33612 *	NASA-CASE-NPO-10417	c 16	N71-33410 *	NASA-CASE-NPO-11018	c 08	N72-21200 *
NASA-CASE-MSC-21793-1	c 16	N91-28186 *	NASA-CASE-NPO-10424-1	c 27	N81-24258 *	NASA-CASE-NPO-11021	c 03	N72-20032 *
NASA-CASE-MSC-21799-1	c 37	N92-29150 *	NASA-CASE-NPO-10431	c 15	N71-29132 *	NASA-CASE-NPO-11023	c 09	N72-17155 *
NASA-CASE-MSC-21806-1	c 74	N92-17863 *	NASA-CASE-NPO-10440	c 15	N72-21466 *	NASA-CASE-NPO-11031	c 07	N71-33606 *
NASA-CASE-MSC-21843-1-NP	c 51	N92-24052 *	NASA-CASE-NPO-10447	c 06	N70-11252 *	NASA-CASE-NPO-11036	c 15	N72-25252 *
NASA-CASE-MSC-21858-1	c 52	N92-11628 *	NASA-CASE-NPO-10467	c 23	N71-26654 *	NASA-CASE-NPO-11059	c 15	N72-17454 *
NASA-CASE-MSC-21864-1	c 37	N92-23544 *	NASA-CASE-NPO-10468	c 23	N71-33229 *	NASA-CASE-NPO-11064	c 07	N72-11150 *
NASA-CASE-MSC-21868-1	c 54	N92-21589 *	NASA-CASE-NPO-10539	c 07	N71-11285 *	NASA-CASE-NPO-11078	c 09	N72-25262 *
NASA-CASE-MSC-21874-1	c 63	N92-30314 *	NASA-CASE-NPO-10542	c 09	N72-27228 *	NASA-CASE-NPO-11082	c 08	N72-22167 *
NASA-CASE-MSC-21881-1	c 37	N92-30082 *	NASA-CASE-NPO-10548	c 16	N71-24831 *	NASA-CASE-NPO-11087	c 23	N71-29125 *
NASA-CASE-MSC-21884-1	c 27	N92-30539 *	NASA-CASE-NPO-10556	c 14	N71-27185 *	NASA-CASE-NPO-11088	c 08	N71-29034 *
NASA-CASE-MSC-21898-1	c 37	N92-17872 *	NASA-CASE-NPO-10557	c 27	N78-17214 *	NASA-CASE-NPO-11091	c 18	N72-22567 *

NASA-CASE-NPO-11095	c 15	N72-25455 *	NASA-CASE-NPO-11771	c 03	N73-20040 *	NASA-CASE-NPO-13321-1	c 32	N75-26195 *
NASA-CASE-NPO-11103-1	c 35	N77-27367 *	NASA-CASE-NPO-11775	c 26	N72-28761 *	NASA-CASE-NPO-13327-1	c 35	N75-23910 *
NASA-CASE-NPO-11104	c 08	N72-22165 *	NASA-CASE-NPO-11806-1	c 44	N74-19693 *	NASA-CASE-NPO-13342-1	c 37	N76-16446 *
NASA-CASE-NPO-11106	c 14	N70-34697 *	NASA-CASE-NPO-11820-1	c 32	N74-19788 *	NASA-CASE-NPO-13342-2	c 44	N76-29700 *
NASA-CASE-NPO-11118	c 03	N72-25021 *	NASA-CASE-NPO-11821-1	c 08	N73-26175 *	NASA-CASE-NPO-13345-1	c 37	N75-19684 *
NASA-CASE-NPO-11120-1	c 34	N74-18552 *	NASA-CASE-NPO-11850-1	c 32	N74-12912 *	NASA-CASE-NPO-13346-1	c 36	N76-29575 *
NASA-CASE-NPO-11129	c 09	N72-33204 *	NASA-CASE-NPO-11856-1	c 36	N74-15145 *	NASA-CASE-NPO-13348-1	c 33	N75-31332 *
NASA-CASE-NPO-11130	c 08	N72-20176 *	NASA-CASE-NPO-11861-1	c 36	N74-20009 *	NASA-CASE-NPO-13360-1	c 37	N75-25185 *
NASA-CASE-NPO-11133	c 10	N72-20223 *	NASA-CASE-NPO-11868	c 10	N73-20254 *	NASA-CASE-NPO-13374-1	c 33	N75-19524 *
NASA-CASE-NPO-11134	c 09	N72-21246 *	NASA-CASE-NPO-11880	c 28	N73-24783 *	NASA-CASE-NPO-13385-1	c 33	N76-18345 *
NASA-CASE-NPO-11138	c 03	N70-34646 *	NASA-CASE-NPO-11905-1	c 33	N74-12887 *	NASA-CASE-NPO-13386-1	c 54	N75-27758 *
NASA-CASE-NPO-11140	c 15	N72-17455 *	NASA-CASE-NPO-11907-1-NP	c 24	N91-31236 *	NASA-CASE-NPO-13388-1	c 35	N76-16390 *
NASA-CASE-NPO-11147	c 14	N72-27408 *	NASA-CASE-NPO-11919-1	c 35	N74-11284 *	NASA-CASE-NPO-13391-1	c 34	N76-27515 *
NASA-CASE-NPO-11150	c 35	N78-17359 *	NASA-CASE-NPO-11921-1	c 32	N74-30523 *	NASA-CASE-NPO-13396-1	c 35	N76-18401 *
NASA-CASE-NPO-11156-2	c 33	N75-31331 *	NASA-CASE-NPO-11932-1	c 35	N74-23040 *	NASA-CASE-NPO-13402-1	c 37	N76-18457 *
NASA-CASE-NPO-11161	c 08	N72-25207 *	NASA-CASE-NPO-11941-1	c 10	N73-27171 *	NASA-CASE-NPO-13422-1	c 60	N76-14818 *
NASA-CASE-NPO-11177	c 15	N72-17453 *	NASA-CASE-NPO-11942-1	c 33	N73-32818 *	NASA-CASE-NPO-13423-1	c 33	N75-31329 *
NASA-CASE-NPO-11190	c 03	N71-34044 *	NASA-CASE-NPO-11945-1	c 36	N76-18427 *	NASA-CASE-NPO-13426-1	c 33	N75-31330 *
NASA-CASE-NPO-11191-1	c 33	N77-22386 *	NASA-CASE-NPO-11948-1	c 33	N74-32712 *	NASA-CASE-NPO-13428-1	c 60	N77-12721 *
NASA-CASE-NPO-11194	c 08	N72-25209 *	NASA-CASE-NPO-11951-1	c 37	N74-21065 *	NASA-CASE-NPO-13435-1	c 31	N76-14284 *
NASA-CASE-NPO-11201	c 14	N72-27409 *	NASA-CASE-NPO-11954-1	c 35	N78-29421 *	NASA-CASE-NPO-13436-1	c 37	N76-20480 *
NASA-CASE-NPO-11202	c 15	N72-25450 *	NASA-CASE-NPO-11961-1	c 44	N76-18643 *	NASA-CASE-NPO-13443-1	c 76	N76-20994 *
NASA-CASE-NPO-11203	c 10	N72-20224 *	NASA-CASE-NPO-11962-1	c 33	N74-10194 *	NASA-CASE-NPO-13447-1	c 60	N77-12721 *
NASA-CASE-NPO-11210	c 11	N72-20244 *	NASA-CASE-NPO-11966-1	c 33	N74-17928 *	NASA-CASE-NPO-13449-1	c 36	N75-32441 *
NASA-CASE-NPO-11213	c 15	N73-20514 *	NASA-CASE-NPO-11975-1	c 28	N74-33209 *	NASA-CASE-NPO-13451-1	c 33	N76-14373 *
NASA-CASE-NPO-11222	c 15	N72-25456 *	NASA-CASE-NPO-11978	c 31	N78-17238 *	NASA-CASE-NPO-13459-1	c 31	N77-10229 *
NASA-CASE-NPO-11239	c 14	N73-12446 *	NASA-CASE-NPO-12000	c 27	N72-25699 *	NASA-CASE-NPO-13462-1	c 35	N76-24524 *
NASA-CASE-NPO-11243	c 07	N72-20154 *	NASA-CASE-NPO-12015	c 27	N73-16764 *	NASA-CASE-NPO-13464-1	c 44	N76-18642 *
NASA-CASE-NPO-11253	c 09	N72-17157 *	NASA-CASE-NPO-12061-1	c 27	N76-16228 *	NASA-CASE-NPO-13464-2	c 44	N76-29704 *
NASA-CASE-NPO-11264	c 07	N72-25174 *	NASA-CASE-NPO-12070-1	c 28	N73-32606 *	NASA-CASE-NPO-13465-1	c 32	N76-31372 *
NASA-CASE-NPO-11282	c 10	N73-16205 *	NASA-CASE-NPO-12072	c 28	N72-22772 *	NASA-CASE-NPO-13474-1	c 45	N76-21742 *
NASA-CASE-NPO-11283	c 09	N72-25260 *	NASA-CASE-NPO-12087-1	c 74	N81-19898 *	NASA-CASE-NPO-13479-1	c 35	N77-10492 *
NASA-CASE-NPO-11291-1	c 14	N73-30388 *	NASA-CASE-NPO-12106	c 09	N73-15235 *	NASA-CASE-NPO-13482-1	c 44	N78-13526 *
NASA-CASE-NPO-11302-1	c 07	N73-13149 *	NASA-CASE-NPO-12107	c 08	N71-27255 *	NASA-CASE-NPO-13490-1	c 36	N76-31512 *
NASA-CASE-NPO-11302-2	c 32	N74-10132 *	NASA-CASE-NPO-12109	c 11	N72-22245 *	NASA-CASE-NPO-13497-1	c 44	N76-14602 *
NASA-CASE-NPO-11304	c 14	N73-26430 *	NASA-CASE-NPO-12119-1	c 52	N75-15270 *	NASA-CASE-NPO-13504-1	c 33	N75-30430 *
NASA-CASE-NPO-11307-1	c 10	N73-30205 *	NASA-CASE-NPO-12122-1	c 24	N76-14203 *	NASA-CASE-NPO-13506-1	c 35	N76-15435 *
NASA-CASE-NPO-11311	c 14	N72-25414 *	NASA-CASE-NPO-12127-1	c 91	N74-13130 *	NASA-CASE-NPO-13510-1	c 44	N77-32581 *
NASA-CASE-NPO-11317-2	c 36	N74-13205 *	NASA-CASE-NPO-12128-1	c 14	N73-32317 *	NASA-CASE-NPO-13512-1	c 33	N77-10428 *
NASA-CASE-NPO-11322	c 06	N72-25146 *	NASA-CASE-NPO-12130-1	c 25	N75-14844 *	NASA-CASE-NPO-13519-1	c 33	N76-19338 *
NASA-CASE-NPO-11330	c 33	N73-26958 *	NASA-CASE-NPO-12131-3	c 37	N80-18400 *	NASA-CASE-NPO-13528-1	c 09	N77-10071 *
NASA-CASE-NPO-11333	c 08	N72-22162 *	NASA-CASE-NPO-12134-1	c 33	N76-31409 *	NASA-CASE-NPO-13530-1	c 25	N81-17187 *
NASA-CASE-NPO-11336-1	c 76	N79-16678 *	NASA-CASE-NPO-12142-1	c 38	N76-28563 *	NASA-CASE-NPO-13531-1	c 36	N76-24553 *
NASA-CASE-NPO-11337-1	c 74	N81-19896 *	NASA-CASE-NPO-12148-1	c 44	N78-27515 *	NASA-CASE-NPO-13535-1	c 37	N76-31524 *
NASA-CASE-NPO-11338	c 08	N72-25208 *	NASA-CASE-NPO-13044-1	c 35	N74-15094 *	NASA-CASE-NPO-13540-1	c 35	N77-14409 *
NASA-CASE-NPO-11340	c 15	N72-33477 *	NASA-CASE-NPO-13050-1	c 36	N75-15029 *	NASA-CASE-NPO-13541-1	c 37	N79-14383 *
NASA-CASE-NPO-11342	c 09	N72-25248 *	NASA-CASE-NPO-13058-1	c 37	N77-22480 *	NASA-CASE-NPO-13543-1	c 32	N77-12240 *
NASA-CASE-NPO-11358	c 07	N72-25172 *	NASA-CASE-NPO-13059-1	c 37	N76-20480 *	NASA-CASE-NPO-13544-1	c 36	N76-18428 *
NASA-CASE-NPO-11361	c 07	N72-32169 *	NASA-CASE-NPO-13063-1	c 25	N76-18245 *	NASA-CASE-NPO-13545-1	c 32	N77-12240 *
NASA-CASE-NPO-11366	c 11	N73-26238 *	NASA-CASE-NPO-13064-1	c 33	N79-11314 *	NASA-CASE-NPO-13550-1	c 36	N77-26477 *
NASA-CASE-NPO-11369	c 15	N73-13467 *	NASA-CASE-NPO-13065-1	c 52	N74-26625 *	NASA-CASE-NPO-13553-1	c 33	N76-32457 *
NASA-CASE-NPO-11371	c 08	N73-12177 *	NASA-CASE-NPO-13067-1	c 60	N76-18800 *	NASA-CASE-NPO-13556-1	c 35	N84-33766 *
NASA-CASE-NPO-11373	c 13	N72-25323 *	NASA-CASE-NPO-13081-1	c 33	N74-22814 *	NASA-CASE-NPO-13560-1	c 44	N77-10636 *
NASA-CASE-NPO-11377	c 15	N73-27406 *	NASA-CASE-NPO-13086-1	c 15	N73-12495 *	NASA-CASE-NPO-13561-1	c 44	N77-10636 *
NASA-CASE-NPO-11387	c 14	N73-14429 *	NASA-CASE-NPO-13087-2	c 44	N76-31666 *	NASA-CASE-NPO-13566-1	c 25	N77-32255 *
NASA-CASE-NPO-11388	c 03	N72-23048 *	NASA-CASE-NPO-13091-1	c 09	N73-12214 *	NASA-CASE-NPO-13567-1	c 44	N76-29701 *
NASA-CASE-NPO-11403-1	c 33	N77-22386 *	NASA-CASE-NPO-13096-1	c 37	N77-22480 *	NASA-CASE-NPO-13568-1	c 32	N76-21365 *
NASA-CASE-NPO-11406	c 08	N73-12175 *	NASA-CASE-NPO-13103-1	c 32	N74-20811 *	NASA-CASE-NPO-13569-2	c 35	N79-14348 *
NASA-CASE-NPO-11417	c 15	N73-24513 *	NASA-CASE-NPO-13105-1	c 37	N74-21060 *	NASA-CASE-NPO-13579-1	c 44	N78-17460 *
NASA-CASE-NPO-11418-1	c 14	N73-13420 *	NASA-CASE-NPO-13112-1	c 73	N74-26767 *	NASA-CASE-NPO-13579-2	c 44	N79-24433 *
NASA-CASE-NPO-11426	c 07	N73-26119 *	NASA-CASE-NPO-13114-2	c 73	N78-28913 *	NASA-CASE-NPO-13579-3	c 44	N79-24432 *
NASA-CASE-NPO-11429-1	c 74	N77-21941 *	NASA-CASE-NPO-13120-1	c 27	N76-15311 *	NASA-CASE-NPO-13579-4	c 44	N79-14529 *
NASA-CASE-NPO-11432-2	c 35	N74-15090 *	NASA-CASE-NPO-13121-1	c 73	N77-18891 *	NASA-CASE-NPO-13581-2	c 44	N78-31525 *
NASA-CASE-NPO-11437	c 16	N72-28521 *	NASA-CASE-NPO-13125-1	c 33	N75-19519 *	NASA-CASE-NPO-13587-1	c 32	N77-32342 *
NASA-CASE-NPO-11456	c 08	N73-26176 *	NASA-CASE-NPO-13127-1	c 35	N74-23040 *	NASA-CASE-NPO-13604-1	c 35	N76-31490 *
NASA-CASE-NPO-11458A	c 20	N78-32179 *	NASA-CASE-NPO-13131-1	c 36	N75-19652 *	NASA-CASE-NPO-13606-2	c 35	N80-18364 *
NASA-CASE-NPO-11458	c 28	N72-23810 *	NASA-CASE-NPO-13137-1	c 27	N80-32514 *	NASA-CASE-NPO-13613-1	c 37	N76-29590 *
NASA-CASE-NPO-11479	c 15	N73-13462 *	NASA-CASE-NPO-13138-1	c 33	N74-17927 *	NASA-CASE-NPO-13619-1	c 37	N78-16369 *
NASA-CASE-NPO-11481	c 21	N73-13644 *	NASA-CASE-NPO-13139-1	c 60	N76-21914 *	NASA-CASE-NPO-13620-1	c 27	N77-30236 *
NASA-CASE-NPO-11493	c 14	N73-12447 *	NASA-CASE-NPO-13140-1	c 32	N75-24982 *	NASA-CASE-NPO-13641-1	c 32	N79-24210 *
NASA-CASE-NPO-11497	c 08	N73-25206 *	NASA-CASE-NPO-13147-1	c 36	N77-25502 *	NASA-CASE-NPO-13643-1	c 52	N76-29896 *
NASA-CASE-NPO-11510-1	c 33	N77-21315 *	NASA-CASE-NPO-13157-1	c 37	N74-32918 *	NASA-CASE-NPO-13644-1	c 52	N76-29895 *
NASA-CASE-NPO-11515-1	c 33	N77-13315 *	NASA-CASE-NPO-13159-1	c 33	N74-17928 *	NASA-CASE-NPO-13650-1	c 25	N79-28253 *
NASA-CASE-NPO-11548	c 07	N73-26118 *	NASA-CASE-NPO-13160-1	c 35	N74-18090 *	NASA-CASE-NPO-13652-1	c 44	N79-17314 *
NASA-CASE-NPO-11556	c 12	N72-25292 *	NASA-CASE-NPO-13170-1	c 35	N76-14430 *	NASA-CASE-NPO-13652-2	c 44	N79-24431 *
NASA-CASE-NPO-11559	c 28	N73-24784 *	NASA-CASE-NPO-13171-1	c 32	N74-11000 *	NASA-CASE-NPO-13652-3	c 44	N80-14474 *
NASA-CASE-NPO-11569	c 10	N73-26229 *	NASA-CASE-NPO-13175-1	c 36	N75-31427 *	NASA-CASE-NPO-13663-1	c 35	N77-14406 *
NASA-CASE-NPO-11572	c 07	N73-16121 *	NASA-CASE-NPO-13201-1	c 37	N75-15050 *	NASA-CASE-NPO-13666-1	c 27	N77-13217 *
NASA-CASE-NPO-11575-1	c 74	N81-19896 *	NASA-CASE-NPO-13205-1	c 31	N74-32917 *	NASA-CASE-NPO-13671-1	c 37	N77-31497 *
NASA-CASE-NPO-11593-1	c 07	N73-28012 *	NASA-CASE-NPO-13214-1	c 35	N75-25123 *	NASA-CASE-NPO-13673-1	c 71	N77-26919 *
NASA-CASE-NPO-11609-2	c 27	N77-31308 *	NASA-CASE-NPO-13215-1	c 35	N75-25123 *	NASA-CASE-NPO-13675-1	c 44	N77-32580 *
NASA-CASE-NPO-11623-1	c 71	N74-31148 *	NASA-CASE-NPO-13217-1	c 32	N75-26194 *	NASA-CASE-NPO-13676-1	c 60	N79-20751 *
NASA-CASE-NPO-11628-1	c 07	N73-30113 *	NASA-CASE-NPO-13231-1	c 45	N75-27585 *	NASA-CASE-NPO-13683-1	c 35	N77-14411 *
NASA-CASE-NPO-11630	c 08	N72-33172 *	NASA-CASE-NPO-13237-1	c 44	N76-18641 *	NASA-CASE-NPO-13687-1	c 35	N78-18391 *
NASA-CASE-NPO-11631	c 10	N73-12244 *	NASA-CASE-NPO-13247-1	c 76	N79-16678 *	NASA-CASE-NPO-13689-2	c 44	N81-29525 *
NASA-CASE-NPO-11659-1	c 35	N74-11283 *	NASA-CASE-NPO-13253-1	c 37	N75-18573 *	NASA-CASE-NPO-13689-4	c 44	N82-28780 *
NASA-CASE-NPO-11661	c 07	N73-14130 *	NASA-CASE-NPO-13263-1	c 12	N75-24774 *	NASA-CASE-NPO-13690-1	c 27	N78-19302 *
NASA-CASE-NPO-11682-1	c 35	N74-15127 *	NASA-CASE-NPO-13274-1	c 25	N79-10163 *	NASA-CASE-NPO-13690-2	c 27	N79-14213 *
NASA-CASE-NPO-11686	c 14	N73-25462 *	NASA-CASE-NPO-13281-1	c 37	N75-13266 *	NASA-CASE-NPO-13691-1	c 43	N79-17288 *
NASA-CASE-NPO-11703-1	c 10	N73-32144 *	NASA-CASE-NPO-13282	c 38	N78-17396 *	NASA-CASE-NPO-13707-1	c 74	N77-28933 *
NASA-CASE-NPO-11707	c 07	N73-25161 *	NASA-CASE-NPO-13283	c 38	N78-17395 *	NASA-CASE-NPO-13722-1	c 74	N77-22951 *
NASA-CASE-NPO-11738-1	c 09	N73-30185 *	NASA-CASE-NPO-13292-1	c 32	N75-15854 *	NASA-CASE-NPO-13731-1	c 39	N78-10493 *
NASA-CASE-NPO-11743-1	c 28	N74-27425 *	NASA-CASE-NPO-13303-1	c 20	N75-24837 *	NASA-CASE-NPO-13732-1	c 44	N79-10513 *
NASA-CASE-NPO-11749	c 14	N73-28486 *	NASA-CASE-NPO-13308-1	c 36	N75-30524 *	NASA-CASE-NPO-13734-1	c 44	N78-10554 *
NASA-CASE-NPO-11751	c 07	N73-24176 *	NASA-CASE-NPO-13309-1	c 25	N81-19244 *	NASA-CASE-NPO-13736-1	c 44	N77-32583 *
NASA-CASE-NPO-11758-1	c 31	N74-23065 *	NASA-CASE-NPO-13313-1	c 54	N75-27761 *	NASA-CASE-NPO-13753-1	c 32	N77-20289 *

NASA-CASE-NPO-13758-2	c 31	N81-15154 *	NASA-CASE-NPO-14200-1	c 44	N79-25482 *	NASA-CASE-NPO-14940-1	c 33	N83-31954 *
NASA-CASE-NPO-13759-1	c 74	N78-17867 *	NASA-CASE-NPO-14205-1	c 44	N79-31752 *	NASA-CASE-NPO-14987-1	c 24	N83-33950 *
NASA-CASE-NPO-13763-1	c 44	N78-33526 *	NASA-CASE-NPO-14212-1	c 52	N80-27072 *	NASA-CASE-NPO-14998-1	c 32	N83-18975 *
NASA-CASE-NPO-13764-1	c 27	N78-17215 *	NASA-CASE-NPO-14219-1	c 74	N81-17886 *	NASA-CASE-NPO-15015-1	c 25	N82-28368 *
NASA-CASE-NPO-13772-1	c 35	N78-10429 *	NASA-CASE-NPO-14220-1	c 37	N81-14318 *	NASA-CASE-NPO-15021-1	c 36	N83-10417 *
NASA-CASE-NPO-13786-1	c 44	N80-29835 *	NASA-CASE-NPO-14221-1	c 37	N81-25370 *	NASA-CASE-NPO-15024-1	c 32	N84-27951 *
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NASA-CASE-NPO-13801-1	c 36	N78-18410 *	NASA-CASE-NPO-14229-1	c 33	N80-18285 *	NASA-CASE-NPO-15037-2	c 37	N85-29282 *
NASA-CASE-NPO-13802-1	c 71	N78-10837 *	NASA-CASE-NPO-14231-1	c 46	N80-10709 *	NASA-CASE-NPO-15066-1	c 33	N82-29538 *
NASA-CASE-NPO-13804-1	c 33	N80-23559 *	NASA-CASE-NPO-14237-1	c 44	N80-20808 *	NASA-CASE-NPO-15070-1	c 31	N83-35176 *
NASA-CASE-NPO-13808-1	c 35	N78-15461 *	NASA-CASE-NPO-14253-1	c 32	N80-32605 *	NASA-CASE-NPO-15071-1	c 44	N82-16475 *
NASA-CASE-NPO-13810-1	c 44	N77-32582 *	NASA-CASE-NPO-14254-1	c 36	N80-18372 *	NASA-CASE-NPO-15100-1	c 44	N84-14583 *
NASA-CASE-NPO-13812-1	c 33	N77-30365 *	NASA-CASE-NPO-14255-1	c 46	N79-23555 *	NASA-CASE-NPO-15102-1	c 25	N81-25159 *
NASA-CASE-NPO-13813-1	c 44	N78-31526 *	NASA-CASE-NPO-14258-1	c 35	N81-33448 *	NASA-CASE-NPO-15111-1	c 36	N82-29589 *
NASA-CASE-NPO-13817-1	c 44	N79-11471 *	NASA-CASE-NPO-14260-1	c 28	N79-28342 *	NASA-CASE-NPO-15115-1	c 37	N82-24493 *
NASA-CASE-NPO-13821-1	c 44	N78-28594 *	NASA-CASE-NPO-14272-1	c 25	N81-33246 *	NASA-CASE-NPO-15155-1	c 74	N85-22139 *
NASA-CASE-NPO-13823-1	c 37	N81-25371 *	NASA-CASE-NPO-14273-1	c 25	N82-11144 *	NASA-CASE-NPO-15161-1	c 33	N84-16456 *
NASA-CASE-NPO-13828-1	c 37	N79-11405 *	NASA-CASE-NPO-14295-1	c 76	N80-32245 *	NASA-CASE-NPO-15179-1	c 44	N82-26777 *
NASA-CASE-NPO-13830-1	c 32	N80-14281 *	NASA-CASE-NPO-14297-1	c 33	N81-19389 *	NASA-CASE-NPO-15183-1	c 44	N82-26776 *
NASA-CASE-NPO-13836-1	c 32	N78-15323 *	NASA-CASE-NPO-14298-1	c 76	N80-32244 *	NASA-CASE-NPO-15197-1	c 52	N83-25346 *
NASA-CASE-NPO-13839-1	c 31	N78-25256 *	NASA-CASE-NPO-14303-1	c 44	N80-18550 *	NASA-CASE-NPO-15201-1	c 36	N83-35350 *
NASA-CASE-NPO-13847-2	c 85	N79-17747 *	NASA-CASE-NPO-14305-1	c 44	N80-18550 *	NASA-CASE-NPO-15202-1	c 27	N83-34043 *
NASA-CASE-NPO-13848-2	c 85	N79-17747 *	NASA-CASE-NPO-14311-1	c 33	N82-29539 *	NASA-CASE-NPO-15210-1	c 25	N84-22709 *
NASA-CASE-NPO-13849-1	c 28	N80-10374 *	NASA-CASE-NPO-14315-1	c 27	N81-17261 *	NASA-CASE-NPO-15213-1	c 51	N83-17045 *
NASA-CASE-NPO-13858-1	c 28	N79-11231 *	NASA-CASE-NPO-14316-1	c 33	N81-33404 *	NASA-CASE-NPO-15220-1	c 45	N83-25217 *
NASA-CASE-NPO-13859-1	c 28	N79-11231 *	NASA-CASE-NPO-14324-1	c 72	N80-27163 *	NASA-CASE-NPO-15227-1	c 37	N81-33482 *
NASA-CASE-NPO-13862-1	c 35	N79-10391 *	NASA-CASE-NPO-14328-1	c 32	N80-18253 *	NASA-CASE-NPO-15251-1	c 31	N83-31897 *
NASA-CASE-NPO-13867-1	c 27	N78-14164 *	NASA-CASE-NPO-14329-1	c 52	N81-20703 *	NASA-CASE-NPO-15264-1	c 44	N84-27713 *
NASA-CASE-NPO-13872-1	c 33	N78-10377 *	NASA-CASE-NPO-14340-1	c 45	N80-14579 *	NASA-CASE-NPO-15269-1	c 44	N82-29710 *
NASA-CASE-NPO-13877-1	c 45	N82-11634 *	NASA-CASE-NPO-14350-1	c 33	N80-14332 *	NASA-CASE-NPO-15292-1	c 35	N83-27184 *
NASA-CASE-NPO-13886-1	c 32	N78-24391 *	NASA-CASE-NPO-14361-1	c 32	N82-23376 *	NASA-CASE-NPO-15295-1	c 60	N85-21992 *
NASA-CASE-NPO-13899-1	c 27	N80-32515 *	NASA-CASE-NPO-14362-1	c 32	N80-16261 *	NASA-CASE-NPO-15304-1	c 25	N83-31743 *
NASA-CASE-NPO-13904-1	c 25	N79-11152 *	NASA-CASE-NPO-14363-1	c 39	N81-25400 *	NASA-CASE-NPO-15334-1	c 71	N83-35781 *
NASA-CASE-NPO-13906-1	c 54	N79-24652 *	NASA-CASE-NPO-14369-1	c 44	N83-10501 *	NASA-CASE-NPO-15341-1	c 35	N84-33769 *
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NASA-CASE-NPO-13909-1	c 33	N78-25319 *	NASA-CASE-NPO-14382-1	c 31	N80-18231 *	NASA-CASE-NPO-15345-1	c 74	N84-23247 *
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NASA-CASE-NPO-13913-1	c 52	N79-12694 *	NASA-CASE-NPO-14387-1	c 43	N81-26509 *	NASA-CASE-NPO-15351-2	c 06	N84-34443 *
NASA-CASE-NPO-13914-1	c 44	N78-31526 *	NASA-CASE-NPO-14388-1	c 37	N81-17432 *	NASA-CASE-NPO-15358-1	c 33	N83-27126 *
NASA-CASE-NPO-13918-1	c 76	N79-11920 *	NASA-CASE-NPO-14395-1	c 37	N82-21587 *	NASA-CASE-NPO-15375-1	c 74	N84-11921 *
NASA-CASE-NPO-13921-1	c 44	N79-14526 *	NASA-CASE-NPO-14402-1	c 52	N81-27783 *	NASA-CASE-NPO-15388-1	c 44	N84-28203 *
NASA-CASE-NPO-13930-1	c 52	N79-14749 *	NASA-CASE-NPO-14406-1	c 37	N80-29703 *	NASA-CASE-NPO-15398-1	c 35	N84-22931 *
NASA-CASE-NPO-13935-1	c 52	N79-14751 *	NASA-CASE-NPO-14416-1	c 44	N81-14389 *	NASA-CASE-NPO-15400-1	c 34	N83-31993 *
NASA-CASE-NPO-13937-1	c 44	N78-31527 *	NASA-CASE-NPO-14424-1	c 33	N80-32650 *	NASA-CASE-NPO-15401-1	c 32	N83-27085 *
NASA-CASE-NPO-13941-1	c 32	N79-10262 *	NASA-CASE-NPO-14426-1	c 33	N81-27396 *	NASA-CASE-NPO-15419-2	c 44	N85-30474 *
NASA-CASE-NPO-13944-1	c 52	N79-14751 *	NASA-CASE-NPO-14430-1	c 33	N80-32650 *	NASA-CASE-NPO-15423-1	c 35	N84-28016 *
NASA-CASE-NPO-13945-1	c 36	N78-27402 *	NASA-CASE-NPO-14435-1	c 33	N81-33405 *	NASA-CASE-NPO-15426-1	c 35	N84-17555 *
NASA-CASE-NPO-13948-1	c 35	N78-25391 *	NASA-CASE-NPO-14444-1	c 33	N81-15192 *	NASA-CASE-NPO-15430-1	c 46	N85-21846 *
NASA-CASE-NPO-13953-1	c 35	N79-28527 *	NASA-CASE-NPO-14448-1	c 74	N81-29963 *	NASA-CASE-NPO-15432-1	c 32	N85-29117 *
NASA-CASE-NPO-13958-1	c 25	N79-11151 *	NASA-CASE-NPO-14467-1	c 44	N79-31753 *	NASA-CASE-NPO-15433-1	c 32	N85-21428 *
NASA-CASE-NPO-13969-1	c 76	N79-23798 *	NASA-CASE-NPO-14473-1	c 37	N80-32654 *	NASA-CASE-NPO-15435-1	c 71	N83-36846 *
NASA-CASE-NPO-13970-1	c 33	N81-20352 *	NASA-CASE-NPO-14474-1	c 26	N80-14229 *	NASA-CASE-NPO-15453-1	c 71	N83-32515 *
NASA-CASE-NPO-13982-1	c 32	N79-14267 *	NASA-CASE-NPO-14477-1	c 28	N80-28536 *	NASA-CASE-NPO-15458-1	c 25	N84-12262 *
NASA-CASE-NPO-13993-1	c 72	N79-13826 *	NASA-CASE-NPO-14480-1	c 32	N80-20448 *	NASA-CASE-NPO-15464-1	c 74	N85-29749 *
NASA-CASE-NPO-13999-1	c 35	N78-18395 *	NASA-CASE-NPO-14501-1	c 35	N80-18357 *	NASA-CASE-NPO-15465-1	c 34	N84-22903 *
NASA-CASE-NPO-14000-1	c 33	N79-24254 *	NASA-CASE-NPO-14502-1	c 74	N81-17888 *	NASA-CASE-NPO-15466-1	c 71	N85-22104 *
NASA-CASE-NPO-14001-1	c 27	N81-14076 *	NASA-CASE-NPO-14505-1	c 33	N81-19393 *	NASA-CASE-NPO-15482-1	c 37	N82-23970 *
NASA-CASE-NPO-14005-1	c 71	N79-20827 *	NASA-CASE-NPO-14513-1	c 35	N81-14287 *	NASA-CASE-NPO-15483-1	c 37	N85-21650 *
NASA-CASE-NPO-14009-1	c 32	N79-13214 *	NASA-CASE-NPO-14519-1	c 32	N80-23524 *	NASA-CASE-NPO-15494-1	c 35	N82-25484 *
NASA-CASE-NPO-14014-1	c 37	N79-10420 *	NASA-CASE-NPO-14521-1	c 37	N81-27519 *	NASA-CASE-NPO-15496-1	c 44	N84-23018 *
NASA-CASE-NPO-14019-1	c 32	N79-14268 *	NASA-CASE-NPO-14524-1	c 32	N80-24510 *	NASA-CASE-NPO-15516-1	c 36	N84-22943 *
NASA-CASE-NPO-14021-2	c 27	N80-16163 *	NASA-CASE-NPO-14525-1	c 32	N79-19195 *	NASA-CASE-NPO-15519-1	c 32	N84-34651 *
NASA-CASE-NPO-14022-1	c 32	N78-31321 *	NASA-CASE-NPO-14525-2	c 32	N83-31918 *	NASA-CASE-NPO-15522-1	c 71	N83-32516 *
NASA-CASE-NPO-14035-1	c 32	N83-19968 *	NASA-CASE-NPO-14527-1	c 32	N80-24510 *	NASA-CASE-NPO-15530-1	c 76	N83-35888 *
NASA-CASE-NPO-14054-1	c 32	N82-12297 *	NASA-CASE-NPO-14536-1	c 32	N81-14185 *	NASA-CASE-NPO-15539-1	c 37	N82-11469 *
NASA-CASE-NPO-14056-1	c 33	N79-24257 *	NASA-CASE-NPO-14542-1	c 25	N82-23282 *	NASA-CASE-NPO-15547-1	c 72	N84-16959 *
NASA-CASE-NPO-14058-1	c 44	N79-18443 *	NASA-CASE-NPO-14544-1	c 46	N82-12685 *	NASA-CASE-NPO-15553-1	c 33	N85-29142 *
NASA-CASE-NPO-14066-1	c 74	N79-34011 *	NASA-CASE-NPO-14549-2	c 52	N82-33996 *	NASA-CASE-NPO-15558-1	c 35	N84-34705 *
NASA-CASE-NPO-14078-1	c 72	N80-14877 *	NASA-CASE-NPO-14554-1	c 60	N81-27814 *	NASA-CASE-NPO-15559-1	c 71	N85-30765 *
NASA-CASE-NPO-14079-1	c 25	N80-20334 *	NASA-CASE-NPO-14556-1	c 33	N82-24418 *	NASA-CASE-NPO-15560-1	c 33	N85-21491 *
NASA-CASE-NPO-14092-1	c 52	N80-16725 *	NASA-CASE-NPO-14558-1	c 46	N80-24906 *	NASA-CASE-NPO-15562-1	c 71	N82-27086 *
NASA-CASE-NPO-14093-1	c 35	N80-20563 *	NASA-CASE-NPO-14567-1	c 33	N83-18996 *	NASA-CASE-NPO-15592-1	c 71	N84-16940 *
NASA-CASE-NPO-14096-1	c 44	N80-18551 *	NASA-CASE-NPO-14579-1	c 32	N80-18253 *	NASA-CASE-NPO-15609-2	c 25	N88-23846 *
NASA-CASE-NPO-14100-1	c 44	N79-12541 *	NASA-CASE-NPO-14588-1	c 32	N81-25278 *	NASA-CASE-NPO-15617-1	c 35	N87-21304 *
NASA-CASE-NPO-14101-1	c 52	N80-14687 *	NASA-CASE-NPO-14590-1	c 32	N80-18253 *	NASA-CASE-NPO-15625-1	c 76	N83-20789 *
NASA-CASE-NPO-14103-1	c 28	N78-31255 *	NASA-CASE-NPO-14596-1	c 31	N81-33319 *	NASA-CASE-NPO-15629-1	c 76	N84-35113 *
NASA-CASE-NPO-14109-1	c 28	N80-23471 *	NASA-CASE-NPO-14596-3	c 31	N83-31896 *	NASA-CASE-NPO-15640-1	c 27	N84-22748 *
NASA-CASE-NPO-14110-1	c 28	N81-15119 *	NASA-CASE-NPO-14597-2	c 37	N84-28081 *	NASA-CASE-NPO-15644-1	c 35	N84-33767 *
NASA-CASE-NPO-14112-1	c 46	N79-22679 *	NASA-CASE-NPO-14617-1	c 33	N81-24338 *	NASA-CASE-NPO-15651-1	c 43	N85-21723 *
NASA-CASE-NPO-14124-1	c 46	N80-14603 *	NASA-CASE-NPO-14619-1	c 44	N81-17518 *	NASA-CASE-NPO-15656-1	c 43	N84-23012 *
NASA-CASE-NPO-14126-1	c 44	N79-11470 *	NASA-CASE-NPO-14632-1	c 32	N82-18443 *	NASA-CASE-NPO-15658-1	c 26	N86-32551 *
NASA-CASE-NPO-14130-1	c 34	N79-20335 *	NASA-CASE-NPO-14635-1	c 44	N80-24741 *	NASA-CASE-NPO-15682-1	c 44	N84-28204 *
NASA-CASE-NPO-14134-1	c 71	N79-23753 *	NASA-CASE-NPO-14640-1	c 32	N80-32605 *	NASA-CASE-NPO-15689-1	c 71	N84-23233 *
NASA-CASE-NPO-14140-1	c 43	N81-26509 *	NASA-CASE-NPO-14641-1	c 32	N81-29308 *	NASA-CASE-NPO-15696-1	c 33	N85-34333 *
NASA-CASE-NPO-14143-1	c 25	N81-14015 *	NASA-CASE-NPO-14657-1	c 74	N81-17887 *	NASA-CASE-NPO-15704-1	c 32	N85-34327 *
NASA-CASE-NPO-14152-1	c 32	N80-18252 *	NASA-CASE-NPO-14670-1	c 44	N81-19558 *	NASA-CASE-NPO-15706-1	c 35	N84-28017 *
NASA-CASE-NPO-14162-1	c 60	N81-15706 *	NASA-CASE-NPO-14749-1	c 32	N81-14186 *	NASA-CASE-NPO-15722-1	c 35	N85-29212 *
NASA-CASE-NPO-14163-1	c 33	N81-14220 *	NASA-CASE-NPO-14782-1	c 36	N82-28616 *	NASA-CASE-NPO-15743-1	c 32	N85-29118 *
NASA-CASE-NPO-14167-1	c 60	N81-15706 *	NASA-CASE-NPO-14813-1	c 74	N82-24072 *	NASA-CASE-NPO-15753-1	c 27	N84-33589 *
NASA-CASE-NPO-14169-1	c 60	N81-15706 *	NASA-CASE-NPO-14831-1	c 76	N82-30105 *	NASA-CASE-NPO-15759-1	c 35	N85-21596 *
NASA-CASE-NPO-14170-1	c 37	N81-15364 *	NASA-CASE-NPO-14839-1	c 35	N82-15381 *	NASA-CASE-NPO-15767-1	c 23	N84-16255 *
NASA-CASE-NPO-14173-1	c 04	N80-32359 *	NASA-CASE-NPO-14845-1	c 27	N82-28442 *	NASA-CASE-NPO-15772-1	c 76	N85-29800 *
NASA-CASE-NPO-14174-1	c 74	N79-20856 *	NASA-CASE-NPO-14857-1	c 27	N83-19900 *	NASA-CASE-NPO-15786-1	c 76	N84-35112 *
NASA-CASE-NPO-14191-1	c 31	N80-32584 *	NASA-CASE-NPO-14864-1	c 74	N83-19947 *	NASA-CASE-NPO-15789-1	c 31	N83-19947 *
NASA-CASE-NPO-14192-1	c 39	N80-10507 *	NASA-CASE-NPO-14902-1	c 25	N82-29371 *	NASA-CASE-NPO-15790-1	c 36	N85-21631 *
NASA-CASE-NPO-14199-1	c 44	N79-25482 *	NASA-CASE-NPO-14936-1	c 47	N83-32232 *	NASA-CASE-NPO-15800-2	c 76	N87-23286 *

NASA-CASE-NPO-15801-1	c 74	N85-23396 *	NASA-CASE-NPO-17022-1-CU	c 29	N87-25489 *	NASA-CASE-NPO-17812-1-CU	c 76	N90-17456 *
NASA-CASE-NPO-15805-1	c 74	N84-28590 *	NASA-CASE-NPO-17024-1-CU	c 35	N88-24943 *	NASA-CASE-NPO-17812-2-CU	c 76	N92-22040 *
NASA-CASE-NPO-15808-1	c 44	N84-34792 *	NASA-CASE-NPO-17058-1-CU	c 62	N87-25803 *	NASA-CASE-NPO-17812-3-CU	c 76	N92-22041 *
NASA-CASE-NPO-15811-1	c 76	N84-12968 *	NASA-CASE-NPO-17068-1-CU	c 35	N88-29151 *	NASA-CASE-NPO-17820-1-CU	c 04	N91-14321 *
NASA-CASE-NPO-15813-1	c 76	N85-30922 *	NASA-CASE-NPO-17074-2-CU	c 76	N92-21499 *	NASA-CASE-NPO-17824-1-CU	c 36	N90-17132 *
NASA-CASE-NPO-15813-2	c 76	N87-15882 *	NASA-CASE-NPO-17085-1-CU	c 31	N89-12785 *	NASA-CASE-NPO-17826-1-CU	c 27	N92-16121 *
NASA-CASE-NPO-15851-1	c 37	N85-21652 *	NASA-CASE-NPO-17086-1-CU	c 35	N89-14422 *	NASA-CASE-NPO-17830-1-CU	c 33	N91-14539 *
NASA-CASE-NPO-15865-1	c 74	N85-34629 *	NASA-CASE-NPO-17108-1-CU	c 33	N89-28713 *	NASA-CASE-NPO-17831-1-CU	c 43	N91-14642 *
NASA-CASE-NPO-15890-1-CU	c 33	N85-29143 *	NASA-CASE-NPO-17122-1-CU	c 27	N91-14489 *	NASA-CASE-NPO-17835-1-CU	c 76	N90-27518 *
NASA-CASE-NPO-15904-1	c 76	N86-28760 *	NASA-CASE-NPO-17134-1-CU	c 33	N91-31528 *	NASA-CASE-NPO-17836-1-CU	c 32	N92-10126 *
NASA-CASE-NPO-15920-1	c 33	N85-21493 *	NASA-CASE-NPO-17139-1-CU	c 74	N88-25301 *	NASA-CASE-NPO-17852-1-CU	c 63	N92-33019 *
NASA-CASE-NPO-15924-1	c 25	N85-35253 *	NASA-CASE-NPO-17140-1-CU	c 74	N89-14077 *	NASA-CASE-NPO-17853-1-CU	c 32	N91-25318 *
NASA-CASE-NPO-15928-1	c 26	N85-29005 *	NASA-CASE-NPO-17143-1-CU	c 31	N89-14351 *	NASA-CASE-NPO-17858-1-CU	c 24	N90-26880 *
NASA-CASE-NPO-15939-1	c 43	N86-19711 *	NASA-CASE-NPO-17144-1-CU	c 74	N88-25305 *	NASA-CASE-NPO-17896-1-CU	c 32	N91-27439 *
NASA-CASE-NPO-15949-1	c 85	N85-34722 *	NASA-CASE-NPO-17157-1-CU	c 33	N88-26596 *	NASA-CASE-NPO-17897-1-CU	c 33	N92-33011 *
NASA-CASE-NPO-15959-2	c 37	N91-14616 *	NASA-CASE-NPO-17184-1-CU	c 32	N88-26541 *	NASA-CASE-NPO-17904-1-CU	c 32	N91-13594 *
NASA-CASE-NPO-15960-1	c 37	N86-19604 *	NASA-CASE-NPO-17185-1-CU	c 62	N91-14772 *	NASA-CASE-NPO-17911-1-CU	c 32	N90-27016 *
NASA-CASE-NPO-15980-1	c 36	N85-30305 *	NASA-CASE-NPO-17196-1-CU	c 32	N88-29076 *	NASA-CASE-NPO-17913-1-CU	c 74	N92-22034 *
NASA-CASE-NPO-15982-1	c 60	N87-21591 *	NASA-CASE-NPO-17197-1-CU	c 62	N91-25693 *	NASA-CASE-NPO-17914-1-CU	c 39	N91-13767 *
NASA-CASE-NPO-16000-1	c 36	N85-29264 *	NASA-CASE-NPO-17203-1-CU	c 34	N90-23700 *	NASA-CASE-NPO-17918-2-CU	c 63	N92-17895 *
NASA-CASE-NPO-16021-1	c 33	N85-30187 *	NASA-CASE-NPO-17204-1-CU	c 34	N91-25380 *	NASA-CASE-NPO-17922-1-CU	c 33	N92-28753 *
NASA-CASE-NPO-16022-1	c 71	N85-22105 *	NASA-CASE-NPO-17205-1-CU	c 60	N90-21525 *	NASA-CASE-NPO-17937-1-CU	c 43	N91-21621 *
NASA-CASE-NPO-16027-1	c 35	N85-21597 *	NASA-CASE-NPO-17207-1-CU	c 74	N88-25304 *	NASA-CASE-NPO-17939-1-CU	c 60	N90-26518 *
NASA-CASE-NPO-16030-1	c 36	N84-25037 *	NASA-CASE-NPO-17233-1-CU	c 33	N88-29095 *	NASA-CASE-NPO-17941-1-CU	c 32	N91-13595 *
NASA-CASE-NPO-16038-1	c 37	N86-19605 *	NASA-CASE-NPO-17235-1-CU	c 35	N90-21358 *	NASA-CASE-NPO-17949-1-CU	c 76	N92-10681 *
NASA-CASE-NPO-16045-1	c 76	N87-13313 *	NASA-CASE-NPO-17241-1-CU	c 33	N90-23636 *	NASA-CASE-NPO-17954-1-CU	c 60	N90-26519 *
NASA-CASE-NPO-16061-1-CU	c 72	N87-21660 *	NASA-CASE-NPO-17249-1-CU	c 32	N89-28676 *	NASA-CASE-NPO-17970-1-CU	c 43	N90-26384 *
NASA-CASE-NPO-16103-1	c 27	N85-29043 *	NASA-CASE-NPO-17258-1-CU	c 33	N91-14551 *	NASA-CASE-NPO-17994-1-CU	c 33	N92-17907 *
NASA-CASE-NPO-16112-1	c 33	N86-19516 *	NASA-CASE-NPO-17259-1-CU	c 76	N90-19884 *	NASA-CASE-NPO-17997-1-CU	c 60	N92-33057 *
NASA-CASE-NPO-16116-2	c 60	N88-29310 *	NASA-CASE-NPO-17275-1-CU	c 37	N89-29750 *	NASA-CASE-NPO-17998-1-CU	c 60	N92-12438 *
NASA-CASE-NPO-16135-1	c 25	N83-24572 *	NASA-CASE-NPO-17278-1-CU	c 31	N90-21215 *	NASA-CASE-NPO-18007-1-CU	c 74	N92-17191 *
NASA-CASE-NPO-16142-1-CU	c 35	N86-20752 *	NASA-CASE-NPO-17280-1-CU	c 17	N90-21061 *	NASA-CASE-NPO-18028-1-CU	c 74	N92-16809 *
NASA-CASE-NPO-16147-1-CU	c 71	N85-29693 *	NASA-CASE-NPO-17282-1-CU	c 36	N91-15528 *	NASA-CASE-NPO-18034-1-CU	c 44	N92-16457 *
NASA-CASE-NPO-16155-1	c 44	N85-30475 *	NASA-CASE-NPO-17291-1-CU	c 34	N88-23946 *	NASA-CASE-NPO-18062-1-CU	c 33	N92-30542 *
NASA-CASE-NPO-16171-1-CU	c 04	N86-27270 *	NASA-CASE-NPO-17301-1-CU	c 31	N90-23587 *	NASA-CASE-NPO-18075-1-CU	c 33	N91-13622 *
NASA-CASE-NPO-16203-1	c 23	N85-35227 *	NASA-CASE-NPO-17310-1-CU	c 17	N88-28946 *	NASA-CASE-NPO-18095-1-CU	c 74	N92-29122 *
NASA-CASE-NPO-16233-1	c 37	N86-20801 *	NASA-CASE-NPO-17325-1-CU	c 32	N90-17005 *	NASA-CASE-NPO-18098-1-CU	c 74	N92-33028 *
NASA-CASE-NPO-16236-1	c 44	N86-27706 *	NASA-CASE-NPO-17334-1-CU	c 31	N88-23917 *	NASA-CASE-NPO-18101-1-CU	c 74	N91-25841 *
NASA-CASE-NPO-16256-1	c 32	N87-21207 *	NASA-CASE-NPO-17354-1-CU	c 37	N90-17153 *	NASA-CASE-NPO-18115-1-CU	c 47	N92-29148 *
NASA-CASE-NPO-16257-1	c 31	N85-29082 *	NASA-CASE-NPO-17355-1-CU	c 36	N91-17360 *	NASA-CASE-NPO-18116-1-CU	c 37	N91-32509 *
NASA-CASE-NPO-16271-1	c 35	N86-25753 *	NASA-CASE-NPO-17390-1-CU	c 35	N90-22769 *	NASA-CASE-NPO-18134-1-CU	c 37	N91-32510 *
NASA-CASE-NPO-16299-1	c 33	N87-14594 *	NASA-CASE-NPO-17393-1-CU	c 33	N89-29679 *	NASA-CASE-NPO-18146-1-CU	c 74	N92-17892 *
NASA-CASE-NPO-16306-1-CU	c 76	N91-15898 *	NASA-CASE-NPO-17394-1-CU	c 60	N91-31810 *	NASA-CASE-NPO-18155-1-CU	c 71	N92-10609 *
NASA-CASE-NPO-16321-1-CU	c 37	N87-17034 *	NASA-CASE-NPO-17399-1-CU	c 76	N89-14120 *	NASA-CASE-NPO-18184-1-CU	c 35	N92-29156 *
NASA-CASE-NPO-16337-1-CU	c 33	N87-22894 *	NASA-CASE-NPO-17401-1-CU	c 63	N91-31885 *	NASA-CASE-NPO-18187-1-CU	c 70	N92-29130 *
NASA-CASE-NPO-16372-1	c 72	N86-33127 *	NASA-CASE-NPO-17426-1-CU	c 33	N91-21434 *	NASA-CASE-NPO-18194-1-CU	c 74	N91-32924 *
NASA-CASE-NPO-16392-1	c 25	N86-25428 *	NASA-CASE-NPO-17430-1-CU	c 33	N90-21951 *	NASA-CASE-NPO-18243-1-CU	c 36	N91-32489 *
NASA-CASE-NPO-16393-1-CU	c 31	N87-21159 *	NASA-CASE-NPO-17436-1-CU	c 35	N91-15512 *	NASA-CASE-NPO-18278-1-CU	c 74	N91-32925 *
NASA-CASE-NPO-16402-2	c 33	N88-24862 *	NASA-CASE-NPO-17461-1-CU	c 35	N91-17350 *	NASA-CASE-NPO-18317-1-CU	c 74	N91-32926 *
NASA-CASE-NPO-16414-1-CU	c 32	N87-25511 *	NASA-CASE-NPO-17479-1-CU	c 34	N91-13658 *	NASA-CASE-NPO-18366-1-CU	c 31	N92-17674 *
NASA-CASE-NPO-16420-1	c 33	N86-20681 *	NASA-CASE-NPO-17480-1-CU	c 25	N92-10073 *	NASA-CASE-NPO-18379-1-CU	c 74	N92-33022 *
NASA-CASE-NPO-16423-1-CU	c 37	N87-21334 *	NASA-CASE-NPO-17498-1-CU	c 72	N91-14813 *	NASA-CASE-NPO-18386-1-CU	c 36	N92-17899 *
NASA-CASE-NPO-16433-1	c 36	N87-23961 *	NASA-CASE-NPO-17511-1-CU	c 71	N91-14807 *	NASA-CASE-NPO-18410-1-CU	c 74	N92-29832 *
NASA-CASE-NPO-16461-1-CU	c 60	N89-26400 *	NASA-CASE-NPO-17512-1-CU	c 74	N91-26918 *	NASA-CASE-NPO-18414-1-CU	c 62	N92-24045 *
NASA-CASE-NPO-16462-1-CU	c 60	N88-24169 *	NASA-CASE-NPO-17524-1-CU	c 27	N90-10261 *	NASA-CASE-NPO-18428-1-CU	c 33	N92-23464 *
NASA-CASE-NPO-16464-1-CU	c 60	N86-24224 *	NASA-CASE-NPO-17525-1-CU	c 60	N90-25583 *	NASA-CASE-NPO-18433-1-CU	c 74	N92-34241 *
NASA-CASE-NPO-16467-1-CU	c 33	N87-23879 *	NASA-CASE-NPO-17526-1-CU	c 35	N91-14588 *	NASA-CASE-NPO-18435-1-CU	c 61	N92-30543 *
NASA-CASE-NPO-16479-1-CU	c 35	N86-32695 *	NASA-CASE-NPO-17548-1-CU	c 32	N90-16104 *	NASA-CASE-NPO-18448-1-CU	c 29	N92-30083 *
NASA-CASE-NPO-16494-1-CU	c 34	N85-29182 *	NASA-CASE-NPO-17552-1-CU	c 54	N92-29129 *	NASA-CASE-NPO-18454-1-CU	c 33	N92-17865 *
NASA-CASE-NPO-16497-1-CU	c 36	N87-25567 *	NASA-CASE-NPO-17564-1-CU	c 32	N92-22033 *	NASA-CASE-NPO-18478-1-CU	c 74	N92-30084 *
NASA-CASE-NPO-16526-1-CU	c 44	N87-17399 *	NASA-CASE-NPO-17569-1-CU	c 31	N92-15203 *	NASA-CASE-NPO-18491-1-CU	c 60	N92-23546 *
NASA-CASE-NPO-16542-1-CU	c 36	N87-23960 *	NASA-CASE-NPO-17573-2-CU	c 33	N92-16196 *	NASA-CASE-NPO-18497-1-CU	c 63	N92-24245 *
NASA-CASE-NPO-16544-1-CU	c 35	N87-22953 *	NASA-CASE-NPO-17596-1-CU	c 35	N89-28795 *	NASA-CASE-NPO-18498-1-CU	c 37	N92-24043 *
NASA-CASE-NPO-16558-1-CU	c 74	N87-23259 *	NASA-CASE-NPO-17604-1-CU	c 33	N91-14536 *	NASA-CASE-NPO-18499-1-CU	c 37	N92-24042 *
NASA-CASE-NPO-16567-1-CU	c 36	N87-28006 *	NASA-CASE-NPO-17612-1-CU	c 74	N92-16808 *	NASA-CASE-NPO-18552-1-CU	c 33	N92-24246 *
NASA-CASE-NPO-16584-1-CU	c 76	N86-25269 *	NASA-CASE-NPO-17620-1-CU	c 71	N91-14808 *	NASA-CASE-NPO-18553-1-CU	c 63	N92-30085 *
NASA-CASE-NPO-16607-1-CU	c 76	N88-14836 *	NASA-CASE-NPO-17621-1-CU	c 33	N90-17010 *	NASA-CASE-NPO-18578-1-CU	c 33	N92-30086 *
NASA-CASE-NPO-16617-2-CU	c 35	N90-17118 *	NASA-CASE-NPO-17625-1-CU	c 34	N92-21724 *	NASA-CASE-NPO-18593-1-CU	c 74	N92-17864 *
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NASA-CASE-XKS-08012-2	c 31	N71-15566 *	NASA-CASE-XLA-01220	c 02	N70-41863 *	NASA-CASE-XLA-04555-1	c 14	N71-25892 *
NASA-CASE-XKS-08485	c 07	N71-19493 *	NASA-CASE-XLA-01243	c 33	N71-22792 *	NASA-CASE-XLA-04556	c 14	N69-27484 *
NASA-CASE-XKS-09340	c 07	N71-24614 *	NASA-CASE-XLA-01262	c 15	N71-21404 *	NASA-CASE-XLA-04605	c 32	N71-16106 *
NASA-CASE-XKS-09348	c 09	N71-13521 *	NASA-CASE-XLA-01288	c 09	N69-21470 *	NASA-CASE-XLA-04622	c 03	N70-41800 *
NASA-CASE-XKS-10543	c 07	N71-26292 *	NASA-CASE-XLA-01290	c 02	N70-42016 *	NASA-CASE-XLA-04804	c 31	N71-23008 *
NASA-CASE-XKS-10804	c 05	N71-24606 *	NASA-CASE-XLA-01291	c 33	N70-36617 *	NASA-CASE-XLA-04897	c 15	N72-22482 *
			NASA-CASE-XLA-01326	c 11	N71-21481 *	NASA-CASE-XLA-04901	c 31	N71-24315 *
NASA-CASE-XLA-00013	c 15	N71-29136 *	NASA-CASE-XLA-01332	c 31	N71-15664 *	NASA-CASE-XLA-04980-2	c 14	N72-28438 *
NASA-CASE-XLA-00062	c 14	N70-33254 *	NASA-CASE-XLA-01339	c 31	N71-15692 *	NASA-CASE-XLA-04980	c 09	N69-27422 *
NASA-CASE-XLA-00087	c 02	N70-33332 *	NASA-CASE-XLA-01349	c 20	N71-17143 *	NASA-CASE-XLA-05056	c 15	N72-11389 *
NASA-CASE-XLA-00100	c 14	N70-36807 *	NASA-CASE-XLA-01353	c 14	N70-41366 *	NASA-CASE-XLA-05087	c 14	N73-30391 *
NASA-CASE-XLA-00105	c 28	N70-33331 *	NASA-CASE-XLA-01354	c 25	N70-36946 *	NASA-CASE-XLA-05099	c 09	N73-13209 *
NASA-CASE-XLA-00112	c 11	N70-33287 *	NASA-CASE-XLA-01396	c 03	N71-12259 *	NASA-CASE-XLA-05100	c 15	N71-17696 *
NASA-CASE-XLA-00113	c 14	N70-33386 *	NASA-CASE-XLA-01400	c 07	N70-41331 *	NASA-CASE-XLA-05332	c 05	N71-11194 *
NASA-CASE-XLA-00115	c 03	N70-33343 *	NASA-CASE-XLA-01441	c 15	N71-21179 *	NASA-CASE-XLA-05369	c 31	N71-15687 *
NASA-CASE-XLA-00117	c 31	N71-17680 *	NASA-CASE-XLA-01446	c 15	N70-41679 *	NASA-CASE-XLA-05378	c 11	N71-21475 *
NASA-CASE-XLA-00118	c 05	N70-33285 *	NASA-CASE-XLA-01486	c 15	N71-21528 *	NASA-CASE-XLA-05464	c 21	N71-14132 *
NASA-CASE-XLA-00119	c 11	N70-33329 *	NASA-CASE-XLA-01494	c 01	N71-23497 *	NASA-CASE-XLA-05541	c 12	N71-26387 *
NASA-CASE-XLA-00120	c 21	N70-33181 *	NASA-CASE-XLA-01530	c 15	N71-24164 *	NASA-CASE-XLA-05749	c 15	N71-19569 *
NASA-CASE-XLA-00128	c 15	N70-37925 *	NASA-CASE-XLA-01551	c 14	N71-23092 *	NASA-CASE-XLA-05828	c 01	N71-13411 *
NASA-CASE-XLA-00135	c 14	N70-33322 *	NASA-CASE-XLA-01552	c 14	N71-22989 *	NASA-CASE-XLA-05906	c 31	N71-16221 *
NASA-CASE-XLA-00137	c 15	N70-33180 *	NASA-CASE-XLA-01583	c 07	N71-11284 *	NASA-CASE-XLA-05966	c 15	N72-12408 *
NASA-CASE-XLA-00138	c 31	N70-37981 *	NASA-CASE-XLA-01584	c 02	N70-36825 *	NASA-CASE-XLA-06095	c 01	N69-39981 *
NASA-CASE-XLA-00141	c 09	N70-33312 *	NASA-CASE-XLA-01731	c 14	N71-23269 *	NASA-CASE-XLA-06199	c 15	N71-24875 *
NASA-CASE-XLA-00142	c 02	N70-33286 *	NASA-CASE-XLA-01745	c 32	N71-21045 *	NASA-CASE-XLA-06232	c 25	N71-20563 *
NASA-CASE-XLA-00147	c 25	N70-34661 *	NASA-CASE-XLA-01781	c 33	N71-28903 *	NASA-CASE-XLA-06339	c 02	N71-13422 *
NASA-CASE-XLA-00149	c 31	N70-37938 *	NASA-CASE-XLA-01782	c 14	N69-39975 *	NASA-CASE-XLA-06683	c 14	N72-28436 *
NASA-CASE-XLA-00154	c 28	N70-33374 *	NASA-CASE-XLA-01787	c 14	N71-26136 *	NASA-CASE-XLA-06713	c 14	N71-28991 *
NASA-CASE-XLA-00158	c 26	N70-36805 *	NASA-CASE-XLA-01791	c 11	N71-16028 *	NASA-CASE-XLA-06824-2	c 02	N71-11037 *
NASA-CASE-XLA-00165	c 31	N70-33242 *	NASA-CASE-XLA-01794	c 14	N71-22991 *	NASA-CASE-XLA-06958	c 02	N71-11038 *
NASA-CASE-XLA-00166	c 02	N70-34178 *	NASA-CASE-XLA-01804	c 33	N71-21586 *	NASA-CASE-XLA-07390	c 15	N71-18616 *
NASA-CASE-XLA-00183	c 14	N70-40239 *	NASA-CASE-XLA-01807	c 02	N70-34160 *	NASA-CASE-XLA-07391	c 12	N71-17579 *
NASA-CASE-XLA-00188	c 15	N71-22874 *	NASA-CASE-XLA-01808	c 15	N71-10799 *	NASA-CASE-XLA-07424	c 14	N71-18482 *
NASA-CASE-XLA-00189	c 33	N70-36846 *	NASA-CASE-XLA-01832	c 15	N71-20740 *	NASA-CASE-XLA-07430	c 11	N72-22246 *
NASA-CASE-XLA-00195	c 02	N70-38009 *	NASA-CASE-XLA-01907	c 14	N71-21006 *	NASA-CASE-XLA-07473	c 15	N71-24895 *
NASA-CASE-XLA-00203	c 14	N70-34161 *	NASA-CASE-XLA-01926	c 14	N71-23268 *	NASA-CASE-XLA-07497	c 09	N71-12514 *
NASA-CASE-XLA-00204	c 32	N70-36536 *	NASA-CASE-XLA-01952	c 14	N71-15620 *	NASA-CASE-XLA-07728	c 33	N71-22890 *
NASA-CASE-XLA-00210	c 30	N70-40309 *	NASA-CASE-XLA-01967	c 08	N71-12507 *	NASA-CASE-XLA-07732	c 08	N71-18751 *
NASA-CASE-XLA-00221	c 02	N70-33266 *	NASA-CASE-XLA-01987	c 31	N70-42015 *	NASA-CASE-XLA-07788	c 09	N71-29139 *
NASA-CASE-XLA-00229	c 12	N70-33305 *	NASA-CASE-XLA-01989	c 23	N71-23976 *	NASA-CASE-XLA-07813	c 14	N72-17328 *
NASA-CASE-XLA-00230	c 02	N70-33255 *	NASA-CASE-XLA-01995	c 21	N70-34295 *	NASA-CASE-XLA-07828	c 08	N71-27057 *
NASA-CASE-XLA-00241	c 31	N70-37986 *	NASA-CASE-XLA-02050	c 18	N71-23047 *	NASA-CASE-XLA-07829	c 15	N72-16329 *
NASA-CASE-XLA-00256	c 31	N71-15663 *	NASA-CASE-XLA-02057	c 31	N71-22968 *	NASA-CASE-XLA-07911	c 15	N71-15571 *
NASA-CASE-XLA-00258	c 31	N70-36876 *	NASA-CASE-XLA-02059	c 26	N70-40015 *	NASA-CASE-XLA-08254	c 14	N71-26161 *
NASA-CASE-XLA-00281	c 21	N70-36943 *	NASA-CASE-XLA-02079	c 33	N71-24276 *	NASA-CASE-XLA-08491	c 05	N69-21380 *
NASA-CASE-XLA-00284	c 15	N71-16075 *	NASA-CASE-XLA-02081	c 12	N71-16894 *	NASA-CASE-XLA-08493	c 10	N71-19421 *
NASA-CASE-XLA-00302	c 15	N71-16077 *	NASA-CASE-XLA-02131	c 20	N71-16281 *	NASA-CASE-XLA-08507	c 09	N69-39984 *
NASA-CASE-XLA-00304	c 27	N70-34783 *	NASA-CASE-XLA-02132	c 32	N70-42003 *	NASA-CASE-XLA-08530	c 32	N71-25360 *
NASA-CASE-XLA-00326	c 03	N70-34667 *	NASA-CASE-XLA-02332	c 31	N71-10582 *	NASA-CASE-XLA-08645	c 15	N69-21465 *
NASA-CASE-XLA-00327	c 25	N71-29184 *	NASA-CASE-XLA-02551	c 32	N71-17609 *	NASA-CASE-XLA-08646	c 14	N71-17586 *
NASA-CASE-XLA-00330	c 33	N70-34540 *	NASA-CASE-XLA-02605	c 21	N71-21708 *	NASA-CASE-XLA-08799	c 10	N71-27272 *
NASA-CASE-XLA-00349	c 33	N70-37979 *	NASA-CASE-XLA-02609	c 14	N71-10773 *	NASA-CASE-XLA-08801-1	c 02	N71-11043 *
NASA-CASE-XLA-00350	c 02	N70-38011 *	NASA-CASE-XLA-02619	c 09	N72-25256 *	NASA-CASE-XLA-08802	c 06	N71-11238 *
NASA-CASE-XLA-00377	c 33	N71-17610 *	NASA-CASE-XLA-02651	c 10	N71-26334 *	NASA-CASE-XLA-08911	c 15	N71-27214 *
NASA-CASE-XLA-00378	c 11	N71-15925 *	NASA-CASE-XLA-02704	c 28	N70-41967 *	NASA-CASE-XLA-08913	c 14	N71-28933 *
NASA-CASE-XLA-00414	c 07	N70-38200 *	NASA-CASE-XLA-02705	c 11	N69-21540 *	NASA-CASE-XLA-08914-2	c 25	N82-21269 *
NASA-CASE-XLA-00415	c 15	N71-16079 *	NASA-CASE-XLA-02758	c 08	N71-15908 *	NASA-CASE-XLA-08914	c 15	N73-12492 *
NASA-CASE-XLA-00471	c 08	N70-34778 *	NASA-CASE-XLA-02809	c 14	N71-18481 *	NASA-CASE-XLA-08916-2	c 14	N73-28487 *
NASA-CASE-XLA-00481	c 14	N70-36824 *	NASA-CASE-XLA-02810	c 15	N71-22982 *	NASA-CASE-XLA-08916	c 15	N71-29018 *
NASA-CASE-XLA-00482	c 15	N70-36409 *	NASA-CASE-XLA-02850	c 14	N71-25901 *	NASA-CASE-XLA-08966-1	c 17	N71-25903 *
NASA-CASE-XLA-00487	c 14	N70-40157 *	NASA-CASE-XLA-02854	c 09	N71-20447 *	NASA-CASE-XLA-08967	c 02	N71-27088 *
NASA-CASE-XLA-00492	c 14	N70-34799 *	NASA-CASE-XLA-02865	c 15	N69-27490 *	NASA-CASE-XLA-09122	c 15	N69-27505 *
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NASA-CASE-XLA-00495	c 14	N70-41332 *	NASA-CASE-XLA-03076	c 05	N71-20268 *	NASA-CASE-XLA-09371	c 10	N71-18724 *
NASA-CASE-XLA-00670	c 08	N71-12501 *	NASA-CASE-XLA-03102	c 07	N71-11266 *	NASA-CASE-XLA-09480	c 11	N71-33612 *
NASA-CASE-XLA-00675	c 25	N70-33267 *	NASA-CASE-XLA-03103	c 14	N71-21079 *	NASA-CASE-XLA-09843	c 15	N72-27485 *
NASA-CASE-XLA-00678	c 31	N70-34296 *	NASA-CASE-XLA-03104	c 25	N71-21693 *	NASA-CASE-XLA-09881	c 31	N71-16085 *
NASA-CASE-XLA-00679	c 15	N70-38601 *	NASA-CASE-XLA-03105	c 06	N71-11235 *	NASA-CASE-XLA-10322	c 15	N72-17452 *
NASA-CASE-XLA-00686	c 31	N70-34135 *	NASA-CASE-XLA-03114	c 15	N69-27483 *	NASA-CASE-XLA-10402	c 14	N71-29041 *
NASA-CASE-XLA-00711	c 03	N71-12258 *	NASA-CASE-XLA-03127	c 09	N71-22888 *	NASA-CASE-XLA-10450	c 28	N71-21493 *
NASA-CASE-XLA-00754	c 15	N70-34850 *	NASA-CASE-XLA-03132	c 11	N71-10776 *	NASA-CASE-XLA-10470	c 15	N72-21489 *
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NASA-CASE-XLA-00791	c 03	N70-39930 *	NASA-CASE-XLA-03271	c 05	N71-11207 *	NASA-CASE-XLA-11154	c 07	N72-21117 *
NASA-CASE-XLA-00793	c 21	N71-22880 *	NASA-CASE-XLA-03273	c 11	N69-24321 *	NASA-CASE-XLA-11189	c 10	N72-20222 *
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NASA-CASE-XLA-00892	c 33	N71-17897 *	NASA-CASE-XLA-03410	c 16	N71-24074 *	NASA-CASE-XLE-00011	c 14	N70-41946 *
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NASA-CASE-XLA-00936	c 14	N71-14996 *	NASA-CASE-XLA-03645	c 15	N71-24897 *	NASA-CASE-XLE-00035	c 33	N71-29151 *
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NASA-CASE-XLA-00941	c 14	N71-23240 *	NASA-CASE-XLA-03661	c 15	N71-21060 *	NASA-CASE-XLE-00057	c 28	N70-38711 *
NASA-CASE-XLA-01019	c 15	N70-40156 *	NASA-CASE-XLA-03724	c 15	N71-33518 *	NASA-CASE-XLE-00078	c 28	N70-33284 *
NASA-CASE-XLA-01027	c 31	N71-24035 *	NASA-CASE-XLA-03893	c 31	N71-15674 *	NASA-CASE-XLE-00085	c 28	N70-39895 *
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NASA-CASE-XLE-00151	c 17	N70-33283 *	NASA-CASE-XLE-02998	c 14	N70-42074 *	NASA-CASE-XMF-00640	c 15	N70-39924 *
NASA-CASE-XLE-00155	c 28	N71-29154 *	NASA-CASE-XLE-02999	c 15	N71-16052 *	NASA-CASE-XMF-00641	c 31	N70-36410 *
NASA-CASE-XLE-00164	c 15	N70-36411 *	NASA-CASE-XLE-03061-1	c 10	N71-24798 *	NASA-CASE-XMF-00658	c 12	N70-38997 *
NASA-CASE-XLE-00168	c 11	N70-33278 *	NASA-CASE-XLE-03157	c 28	N71-24736 *	NASA-CASE-XMF-00663	c 08	N71-18752 *
NASA-CASE-XLE-00170	c 15	N70-36412 *	NASA-CASE-XLE-03186-1	c 09	N79-21084 *	NASA-CASE-XMF-00684	c 21	N71-21688 *
NASA-CASE-XLE-00177	c 28	N70-40367 *	NASA-CASE-XLE-03280	c 14	N71-23093 *	NASA-CASE-XMF-00701	c 09	N70-40272 *
NASA-CASE-XLE-00207	c 28	N70-33375 *	NASA-CASE-XLE-03307	c 33	N71-14035 *	NASA-CASE-XMF-00722	c 15	N70-40204 *
NASA-CASE-XLE-00208	c 28	N70-34294 *	NASA-CASE-XLE-03432	c 33	N71-24145 *	NASA-CASE-XMF-00906	c 09	N70-41655 *
NASA-CASE-XLE-00209	c 22	N73-32528 *	NASA-CASE-XLE-03494	c 27	N71-21819 *	NASA-CASE-XMF-00908	c 14	N70-40238 *
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NASA-CASE-XLE-00231	c 17	N70-38198 *	NASA-CASE-XLE-03778	c 09	N69-21542 *	NASA-CASE-XMF-01030	c 18	N70-41583 *
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NASA-CASE-XLE-00335	c 14	N70-35368 *	NASA-CASE-XLE-04250	c 09	N71-20446 *	NASA-CASE-XMF-01174	c 02	N70-41589 *
NASA-CASE-XLE-00342	c 28	N70-37980 *	NASA-CASE-XLE-04501	c 09	N71-23190 *	NASA-CASE-XMF-01371	c 15	N70-41829 *
NASA-CASE-XLE-00345	c 15	N70-38020 *	NASA-CASE-XLE-04503	c 14	N71-24864 *	NASA-CASE-XMF-01402	c 18	N71-21651 *
NASA-CASE-XLE-00353	c 18	N70-39897 *	NASA-CASE-XLE-04526	c 03	N71-11052 *	NASA-CASE-XMF-01452	c 15	N70-41371 *
NASA-CASE-XLE-00376	c 28	N70-37245 *	NASA-CASE-XLE-04535	c 03	N71-23354 *	NASA-CASE-XMF-01483	c 14	N69-27431 *
NASA-CASE-XLE-00387	c 33	N70-34812 *	NASA-CASE-XLE-04599	c 22	N72-20597 *	NASA-CASE-XMF-01543	c 31	N71-17730 *
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NASA-CASE-XLE-00454	c 23	N71-17802 *	NASA-CASE-XLE-04788	c 09	N71-22987 *	NASA-CASE-XMF-01667	c 15	N71-17647 *
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NASA-CASE-XMS-00893	c 07	N70-40063 *	NASA-CASE-XMS-06064	c 05	N71-23096 *	NASA-CASE-XNP-01193	c 10	N71-16057 *
NASA-CASE-XMS-00907	c 02	N70-41630 *	NASA-CASE-XMS-06162	c 31	N71-28851 *	NASA-CASE-XNP-01263-2	c 15	N71-26312 *
NASA-CASE-XMS-00913	c 10	N71-23543 *	NASA-CASE-XMS-06236	c 14	N71-21007 *	NASA-CASE-XNP-01296	c 33	N75-27250 *
NASA-CASE-XMS-00945	c 09	N71-10798 *	NASA-CASE-XMS-06329-1	c 15	N71-20441 *	NASA-CASE-XNP-01306-2	c 09	N71-24596 *
NASA-CASE-XMS-01077-1	c 37	N79-33467 *	NASA-CASE-XMS-06497	c 14	N71-26244 *	NASA-CASE-XNP-01306	c 07	N71-20814 *
NASA-CASE-XMS-01108	c 15	N69-24322 *	NASA-CASE-XMS-06740-1	c 07	N71-26579 *	NASA-CASE-XNP-01307	c 21	N70-41856 *
NASA-CASE-XMS-01115	c 05	N70-39922 *	NASA-CASE-XMS-06761	c 05	N69-23192 *	NASA-CASE-XNP-01310	c 33	N71-28852 *
NASA-CASE-XMS-01177	c 05	N71-19440 *	NASA-CASE-XMS-06767-1	c 14	N71-20435 *	NASA-CASE-XNP-01311	c 26	N75-29236 *
NASA-CASE-XMS-01240	c 05	N70-35152 *	NASA-CASE-XMS-06782	c 32	N71-15974 *	NASA-CASE-XNP-01318	c 10	N71-23033 *
NASA-CASE-XMS-01244-1	c 33	N79-33393 *	NASA-CASE-XMS-06876	c 15	N71-21536 *	NASA-CASE-XNP-01328	c 26	N71-18064 *
NASA-CASE-XMS-01295-1	c 37	N79-21345 *	NASA-CASE-XMS-06849	c 09	N69-21467 *	NASA-CASE-XNP-01383	c 09	N71-10659 *
NASA-CASE-XMS-01315	c 09	N70-41675 *	NASA-CASE-XMS-07168	c 07	N71-11300 *	NASA-CASE-XNP-01390	c 28	N70-41275 *
NASA-CASE-XMS-01330	c 37	N75-27376 *	NASA-CASE-XMS-07487	c 15	N71-23255 *	NASA-CASE-XNP-01412	c 15	N70-42034 *
NASA-CASE-XMS-01445	c 12	N71-16031 *	NASA-CASE-XMS-07846-1	c 09	N69-21927 *	NASA-CASE-XNP-01458	c 04	N78-17031 *
NASA-CASE-XMS-01492	c 05	N70-41297 *	NASA-CASE-XMS-08589-1	c 09	N71-20569 *	NASA-CASE-XNP-01464	c 03	N71-10728 *
NASA-CASE-XMS-01546	c 14	N70-40233 *	NASA-CASE-XMS-09310	c 15	N71-22706 *	NASA-CASE-XNP-01466	c 10	N71-26434 *
NASA-CASE-XMS-01554	c 10	N71-10578 *	NASA-CASE-XMS-09352	c 09	N71-23316 *	NASA-CASE-XNP-01472	c 14	N70-41807 *
NASA-CASE-XMS-01615	c 05	N70-41329 *	NASA-CASE-XMS-09571	c 05	N71-19439 *	NASA-CASE-XNP-01501	c 21	N70-41930 *
NASA-CASE-XMS-01618	c 14	N71-20741 *	NASA-CASE-XMS-09610	c 07	N71-24625 *	NASA-CASE-XNP-01567	c 15	N70-41310 *
NASA-CASE-XMS-01620	c 23	N71-15673 *	NASA-CASE-XMS-09632-1	c 05	N71-11203 *	NASA-CASE-XNP-01641	c 15	N71-22997 *
NASA-CASE-XMS-01624	c 15	N70-40062 *	NASA-CASE-XMS-09635	c 05	N71-24623 *	NASA-CASE-XNP-01659	c 14	N71-23039 *
NASA-CASE-XMS-01625	c 15	N71-23022 *	NASA-CASE-XMS-09636	c 05	N71-12344 *	NASA-CASE-XNP-01660	c 14	N71-23036 *
NASA-CASE-XMS-01816	c 33	N71-15623 *	NASA-CASE-XMS-09637-1	c 05	N71-24730 *	NASA-CASE-XNP-01735	c 07	N71-22750 *
NASA-CASE-XMS-01905	c 12	N71-21089 *	NASA-CASE-XMS-09652-1	c 05	N71-26333 *	NASA-CASE-XNP-01747	c 15	N71-23024 *
NASA-CASE-XMS-01906	c 31	N70-41373 *	NASA-CASE-XMS-09653	c 54	N78-17680 *	NASA-CASE-XNP-01749	c 27	N70-41897 *
NASA-CASE-XMS-01991	c 09	N71-21449 *	NASA-CASE-XMS-09690	c 33	N72-25513 *	NASA-CASE-XNP-01753	c 08	N71-22897 *
NASA-CASE-XMS-01994-1	c 14	N72-17326 *	NASA-CASE-XMS-09691-1	c 18	N71-15545 *	NASA-CASE-XNP-01848	c 15	N71-28959 *
NASA-CASE-XMS-02009	c 33	N71-20834 *	NASA-CASE-XMS-10269	c 05	N71-24147 *	NASA-CASE-XNP-01855	c 15	N71-28937 *
NASA-CASE-XMS-02063	c 03	N71-29044 *	NASA-CASE-XMS-10660-1	c 15	N71-25975 *	NASA-CASE-XNP-01951	c 09	N70-41929 *
NASA-CASE-XMS-02087	c 09	N70-41717 *	NASA-CASE-XMS-10984-1	c 10	N71-19417 *	NASA-CASE-XNP-01954	c 28	N71-28850 *
NASA-CASE-XMS-02159	c 10	N71-22961 *	NASA-CASE-XMS-10993	c 15	N71-28936 *	NASA-CASE-XNP-01959	c 26	N71-23043 *
NASA-CASE-XMS-02182	c 10	N71-28783 *	NASA-CASE-XMS-12158-1	c 31	N69-27499 *	NASA-CASE-XNP-01960	c 09	N71-23027 *
NASA-CASE-XMS-02184	c 15	N71-20813 *	NASA-CASE-XMS-13052	c 14	N71-20427 *	NASA-CASE-XNP-01961	c 26	N71-29156 *
NASA-CASE-XMS-02383	c 15	N71-15918 *				NASA-CASE-XNP-01962	c 32	N70-41370 *
NASA-CASE-XMS-02399	c 05	N71-22896 *	NASA-CASE-XNP-00214	c 15	N70-36908 *	NASA-CASE-XNP-02029	c 14	N70-41955 *
NASA-CASE-XMS-02532	c 15	N70-41808 *	NASA-CASE-XNP-00217	c 28	N70-38181 *	NASA-CASE-XNP-02092	c 15	N70-42033 *

NASA-CASE-XNP-02139	c 18	N71-24184 *	NASA-CASE-XNP-06234	c 10	N71-27137 *	US-PATENT-APPL-SN-007083	c 26	N80-32484 *
NASA-CASE-XNP-02140	c 09	N71-23097 *	NASA-CASE-XNP-06503	c 23	N71-29049 *	US-PATENT-APPL-SN-008199	c 25	N87-23713 *
NASA-CASE-XNP-02251	c 12	N71-20896 *	NASA-CASE-XNP-06505	c 10	N71-24799 *	US-PATENT-APPL-SN-008207	c 32	N80-23524 *
NASA-CASE-XNP-02278	c 15	N71-28951 *	NASA-CASE-XNP-06506	c 03	N71-11050 *	US-PATENT-APPL-SN-008208	c 37	N81-17432 *
NASA-CASE-XNP-02340	c 23	N69-24332 *	NASA-CASE-XNP-06507	c 09	N71-23548 *	US-PATENT-APPL-SN-008209	c 32	N81-25278 *
NASA-CASE-XNP-02341	c 15	N71-21531 *	NASA-CASE-XNP-06508	c 18	N69-39895 *	US-PATENT-APPL-SN-008210	c 05	N81-26114 *
NASA-CASE-XNP-02389	c 07	N71-28900 *	NASA-CASE-XNP-06509	c 14	N71-23226 *	US-PATENT-APPL-SN-008211	c 74	N81-17887 *
NASA-CASE-XNP-02500	c 18	N71-27397 *	NASA-CASE-XNP-06510	c 14	N71-23797 *	US-PATENT-APPL-SN-008212	c 44	N80-24741 *
NASA-CASE-XNP-02507	c 31	N71-17679 *	NASA-CASE-XNP-06611	c 07	N71-26102 *	US-PATENT-APPL-SN-008242	c 27	N87-23737 *
NASA-CASE-XNP-02588	c 15	N71-18613 *	NASA-CASE-XNP-06914	c 15	N71-21489 *	US-PATENT-APPL-SN-008895	c 08	N88-23809 *
NASA-CASE-XNP-02592	c 24	N71-20518 *	NASA-CASE-XNP-06933	c 14	N73-32321 *	US-PATENT-APPL-SN-009886	c 31	N80-32583 *
NASA-CASE-XNP-02595	c 31	N71-21881 *	NASA-CASE-XNP-06936	c 15	N71-24695 *	US-PATENT-APPL-SN-009887	c 28	N81-14103 *
NASA-CASE-XNP-02654	c 10	N70-42032 *	NASA-CASE-XNP-06937	c 09	N71-19516 *	US-PATENT-APPL-SN-009888	c 37	N81-14320 *
NASA-CASE-XNP-02713	c 10	N69-39888 *	NASA-CASE-XNP-06942	c 28	N71-23293 *	US-PATENT-APPL-SN-009889	c 33	N81-27396 *
NASA-CASE-XNP-02723	c 07	N70-41680 *	NASA-CASE-XNP-06957	c 14	N71-21088 *	US-PATENT-APPL-SN-010942	c 37	N88-14362 *
NASA-CASE-XNP-02748	c 08	N71-22749 *	NASA-CASE-XNP-07040	c 08	N71-12500 *	US-PATENT-APPL-SN-010943	c 35	N89-12841 *
NASA-CASE-XNP-02778	c 08	N71-22710 *	NASA-CASE-XNP-07169	c 15	N73-32362 *	US-PATENT-APPL-SN-010949	c 35	N90-23713 *
NASA-CASE-XNP-02791	c 07	N71-23026 *	NASA-CASE-XNP-07477	c 09	N71-26092 *	US-PATENT-APPL-SN-010950	c 37	N88-14361 *
NASA-CASE-XNP-02792	c 14	N71-28958 *	NASA-CASE-XNP-07478	c 14	N69-21923 *	US-PATENT-APPL-SN-011693	c 27	N87-24575 *
NASA-CASE-XNP-02839	c 28	N70-41922 *	NASA-CASE-XNP-07481	c 25	N69-21929 *	US-PATENT-APPL-SN-011737	c 27	N81-14078 *
NASA-CASE-XNP-02862-1	c 15	N71-26294 *	NASA-CASE-XNP-07659	c 06	N71-22975 *	US-PATENT-APPL-SN-013801	c 05	N88-23765 *
NASA-CASE-XNP-02888	c 18	N71-21068 *	NASA-CASE-XNP-08124-2	c 06	N73-13129 *	US-PATENT-APPL-SN-013802	c 35	N88-23967 *
NASA-CASE-XNP-02899-1	c 33	N79-21265 *	NASA-CASE-XNP-08124	c 15	N71-27184 *	US-PATENT-APPL-SN-013803	c 33	N88-24862 *
NASA-CASE-XNP-02923	c 28	N71-23081 *	NASA-CASE-XNP-08274	c 10	N71-13537 *	US-PATENT-APPL-SN-014663	c 31	N81-25259 *
NASA-CASE-XNP-02982	c 31	N70-41855 *	NASA-CASE-XNP-08567	c 09	N71-26000 *	US-PATENT-APPL-SN-014664	c 44	N81-14389 *
NASA-CASE-XNP-02983	c 14	N71-21091 *	NASA-CASE-XNP-08680	c 14	N71-22995 *	US-PATENT-APPL-SN-015983	c 02	N80-28300 *
NASA-CASE-XNP-03063	c 17	N71-23365 *	NASA-CASE-XNP-08832	c 08	N71-12506 *	US-PATENT-APPL-SN-015995	c 08	N81-26152 *
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NASA-CASE-XNP-03134	c 07	N71-10676 *	NASA-CASE-XNP-08836	c 09	N71-12515 *	US-PATENT-APPL-SN-017885	c 32	N79-19195 *
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NASA-CASE-XNP-03263	c 09	N71-18843 *	NASA-CASE-XNP-08840	c 23	N71-16365 *	US-PATENT-APPL-SN-017887	c 33	N81-26358 *
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NASA-CASE-XNP-03413	c 03	N71-26726 *	NASA-CASE-XNP-08880	c 09	N71-24808 *	US-PATENT-APPL-SN-019541	c 02	N81-14968 *
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NASA-CASE-XNP-03914	c 21	N71-10771 *	NASA-CASE-XNP-09451	c 06	N71-26754 *	US-PATENT-APPL-SN-025163	c 74	N80-33210 *
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NASA-CASE-XNP-03930	c 14	N69-24331 *	NASA-CASE-XNP-09461	c 28	N72-23809 *	US-PATENT-APPL-SN-027558	c 36	N81-24422 *
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NASA-CASE-XNP-04023	c 06	N71-28808 *	NASA-CASE-XNP-09469	c 24	N71-25555 *	US-PATENT-APPL-SN-027981	c 76	N87-25868 *
NASA-CASE-XNP-04067	c 08	N71-22707 *	NASA-CASE-XNP-09572	c 14	N71-15621 *	US-PATENT-APPL-SN-028300	c 27	N81-17259 *
NASA-CASE-XNP-04111	c 14	N71-15622 *	NASA-CASE-XNP-09698	c 15	N71-18580 *	US-PATENT-APPL-SN-028301	c 27	N81-17262 *
NASA-CASE-XNP-04124	c 28	N71-21822 *	NASA-CASE-XNP-09699	c 06	N71-24607 *	US-PATENT-APPL-SN-028301	c 27	N81-24256 *
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NASA-CASE-XNP-04161	c 14	N71-15599 *	NASA-CASE-XNP-09702	c 15	N71-17654 *	US-PATENT-APPL-SN-028831	c 27	N89-14337 *
NASA-CASE-XNP-04162-1	c 08	N70-34675 *	NASA-CASE-XNP-09704	c 12	N71-18615 *	US-PATENT-APPL-SN-028832	c 05	N89-11738 *
NASA-CASE-XNP-04167-2	c 25	N72-24753 *	NASA-CASE-XNP-09744	c 27	N71-16392 *	US-PATENT-APPL-SN-030831	c 25	N82-23282 *
NASA-CASE-XNP-04167-3	c 36	N77-19416 *	NASA-CASE-XNP-09750	c 14	N69-39937 *	US-PATENT-APPL-SN-032305	c 15	N82-24272 *
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NASA-CASE-XNP-04183	c 09	N69-24329 *	NASA-CASE-XNP-09755	c 46	N74-23069 *	US-PATENT-APPL-SN-032679	c 34	N88-23958 *
NASA-CASE-XNP-04231	c 14	N73-32325 *	NASA-CASE-XNP-09759	c 08	N71-24891 *	US-PATENT-APPL-SN-032685	c 35	N87-25555 *
NASA-CASE-XNP-04262-2	c 17	N71-26773 *	NASA-CASE-XNP-09763	c 14	N71-20461 *	US-PATENT-APPL-SN-032818	c 37	N88-29180 *
NASA-CASE-XNP-04264	c 03	N69-21337 *	NASA-CASE-XNP-09768	c 09	N71-12516 *	US-PATENT-APPL-SN-032819	c 33	N89-28713 *
NASA-CASE-XNP-04338	c 17	N71-23046 *	NASA-CASE-XNP-09770-2	c 15	N72-22483 *	US-PATENT-APPL-SN-034104	c 08	N81-19130 *
NASA-CASE-XNP-04339	c 17	N71-29137 *	NASA-CASE-XNP-09770-3	c 11	N71-27036 *	US-PATENT-APPL-SN-034531	c 52	N81-28740 *
NASA-CASE-XNP-04389	c 28	N71-20942 *	NASA-CASE-XNP-09770	c 15	N71-20440 *	US-PATENT-APPL-SN-035401	c 31	N87-25495 *
NASA-CASE-XNP-04623	c 10	N71-26103 *	NASA-CASE-XNP-09771	c 09	N71-24841 *	US-PATENT-APPL-SN-035401	c 54	N91-14723 *
NASA-CASE-XNP-04731	c 15	N71-24042 *	NASA-CASE-XNP-09775	c 09	N71-20445 *	US-PATENT-APPL-SN-035401	c 54	N91-14724 *
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NASA-CASE-XNP-04819	c 08	N71-23295 *	NASA-CASE-XNP-09832	c 30	N71-23723 *	US-PATENT-APPL-SN-037194	c 37	N84-28081 *
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NASA-CASE-XNP-05082	c 15	N70-41960 *	NASA-CASE-XNP-10475	c 15	N71-24679 *	US-PATENT-APPL-SN-038550	c 33	N83-18996 *
NASA-CASE-XNP-05219	c 16	N71-15550 *	NASA-CASE-XNP-10830	c 07	N71-11281 *	US-PATENT-APPL-SN-038560	c 27	N89-29538 *
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NASA-CASE-XNP-05254	c 07	N71-20791 *	NASA-CASE-XNP-10854	c 10	N71-26331 *	US-PATENT-APPL-SN-039031	c 32	N80-28578 *
NASA-CASE-XNP-05297	c 15	N71-23811 *				US-PATENT-APPL-SN-041141	c 36	N82-13415 *
NASA-CASE-XNP-05381	c 09	N71-20842 *	NASA-TM-76884	c 24	N85-25436 *	US-PATENT-APPL-SN-041142	c 32	N81-15179 *
NASA-CASE-XNP-05382	c 10	N71-23544 *				US-PATENT-APPL-SN-041143	c 60	N83-25378 *
NASA-CASE-XNP-05415	c 08	N71-12505 *	US-Patent-4,884,770	c 16	N90-22584 *	US-PATENT-APPL-SN-041145	c 25	N82-12166 *
NASA-CASE-XNP-05429	c 26	N71-21824 *	US-Patent-4,885,633	c 35	N90-22770 *	US-PATENT-APPL-SN-041164	c 33	N81-19392 *
NASA-CASE-XNP-05524	c 33	N71-24876 *	US-Patent-4,886,222	c 35	N90-22769 *	US-PATENT-APPL-SN-041389	c 35	N91-21494 *
NASA-CASE-XNP-05530	c 14	N73-32321 *	US-Patent-4,886,646	c 76	N90-23242 *	US-PATENT-APPL-SN-043911	c 05	N82-26277 *
NASA-CASE-XNP-05535	c 14	N71-23040 *	US-Patent-4,890,036	c 33	N90-22724 *	US-PATENT-APPL-SN-043912	c 43	N81-17499 *
NASA-CASE-XNP-05612	c 09	N69-21468 *				US-PATENT-APPL-SN-043913	c 54	N81-27806 *
NASA-CASE-XNP-05634	c 15	N71-24834 *	US-PATENT-APPL-SN-000692	c 23	N89-12667 *	US-PATENT-APPL-SN-043941	c 44	N81-19558 *
NASA-CASE-XNP-05821	c 03	N71-11056 *	US-PATENT-APPL-SN-003676	c 02	N88-23759 *	US-PATENT-APPL-SN-043942	c 06	N82-16075 *
NASA-CASE-XNP-05975	c 15	N69-23185 *	US-PATENT-APPL-SN-003693	c 52	N81-14612 *	US-PATENT-APPL-SN-043943	c 33	N82-24419 *
NASA-CASE-XNP-06028	c 09	N71-23189 *	US-PATENT-APPL-SN-004282	c 60	N88-29310 *	US-PATENT-APPL-SN-043944	c 24	N82-24296 *
NASA-CASE-XNP-06031	c 15	N71-15606 *	US-PATENT-APPL-SN-004304	c 05	N91-14345 *	US-PATENT-APPL-SN-043945	c 47	N82-24779 *
NASA-CASE-XNP-06032	c 09	N69-21926 *	US-PATENT-APPL-SN-006952	c 27	N81-14077 *	US-PATENT-APPL-SN-044180	c 35	N87-25558 *

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US-PATENT-APPL-SN-061327	c 32	N83-13323 *	US-PATENT-APPL-SN-104884	c 15	N72-33476 *	US-PATENT-APPL-SN-125235	c 51	N77-25769 *
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US-PATENT-APPL-SN-138227	c 26	N72-27784 *	US-PATENT-APPL-SN-153624	c 37	N75-27376 *	US-PATENT-APPL-SN-172105	c 63	N91-31885 *
US-PATENT-APPL-SN-138229	c 15	N72-32487 *	US-PATENT-APPL-SN-154094	c 33	N72-27959 *	US-PATENT-APPL-SN-172459	c 06	N73-16106 *
US-PATENT-APPL-SN-138230	c 32	N73-20740 *	US-PATENT-APPL-SN-154663	c 02	N81-26073 *	US-PATENT-APPL-SN-172727	c 33	N81-26360 *
US-PATENT-APPL-SN-138944	c 37	N82-26672 *	US-PATENT-APPL-SN-154663	c 09	N82-29330 *	US-PATENT-APPL-SN-172807	c 07	N73-28012 *
US-PATENT-APPL-SN-139006	c 09	N70-38604 *	US-PATENT-APPL-SN-154711	c 33	N88-24863 *	US-PATENT-APPL-SN-173081	c 28	N70-36806 *
US-PATENT-APPL-SN-139007	c 28	N70-37245 *	US-PATENT-APPL-SN-154712	c 37	N88-24969 *	US-PATENT-APPL-SN-173178	c 33	N77-21315 *
US-PATENT-APPL-SN-139012	c 03	N70-38713 *	US-PATENT-APPL-SN-154713	c 72	N89-29169 *	US-PATENT-APPL-SN-173185	c 23	N73-13660 *
US-PATENT-APPL-SN-139094	c 05	N73-32011 *	US-PATENT-APPL-SN-154716	c 74	N88-25302 *	US-PATENT-APPL-SN-173190	c 05	N73-32015 *
US-PATENT-APPL-SN-139250	c 04	N73-27052 *	US-PATENT-APPL-SN-154718	c 74	N88-25301 *	US-PATENT-APPL-SN-173518	c 60	N82-29013 *
US-PATENT-APPL-SN-139528	c 03	N72-25020 *	US-PATENT-APPL-SN-154725	c 37	N82-24493 *	US-PATENT-APPL-SN-173519	c 44	N82-26776 *
US-PATENT-APPL-SN-139596	c 33	N77-13315 *	US-PATENT-APPL-SN-154726	c 25	N81-25159 *	US-PATENT-APPL-SN-173520	c 31	N83-27058 *
US-PATENT-APPL-SN-140185	c 76	N91-21911 *	US-PATENT-APPL-SN-154930	c 44	N76-14600 *	US-PATENT-APPL-SN-173524	c 35	N82-32659 *
US-PATENT-APPL-SN-140185	c 74	N91-31950 *	US-PATENT-APPL-SN-154933	c 14	N73-25463 *	US-PATENT-APPL-SN-173981	c 14	N70-35666 *
US-PATENT-APPL-SN-140185	c 74	N92-29158 *	US-PATENT-APPL-SN-154935	c 11	N72-27262 *	US-PATENT-APPL-SN-174684	c 33	N75-31331 *
US-PATENT-APPL-SN-140439	c 33	N75-19518 *	US-PATENT-APPL-SN-155565	c 08	N73-25206 *	US-PATENT-APPL-SN-175267	c 14	N73-28486 *
US-PATENT-APPL-SN-140443	c 09	N70-35219 *	US-PATENT-APPL-SN-155584	c 09	N70-40123 *	US-PATENT-APPL-SN-175452	c 27	N81-27272 *
US-PATENT-APPL-SN-140509	c 09	N70-35382 *	US-PATENT-APPL-SN-155595	c 26	N73-28710 *	US-PATENT-APPL-SN-175452	c 27	N85-21347 *
US-PATENT-APPL-SN-140946	c 18	N73-26572 *	US-PATENT-APPL-SN-155596	c 15	N73-32361 *	US-PATENT-APPL-SN-175453	c 85	N82-33288 *
US-PATENT-APPL-SN-140946	c 27	N74-27037 *	US-PATENT-APPL-SN-155598	c 15	N73-28516 *	US-PATENT-APPL-SN-175497	c 08	N73-28045 *
US-PATENT-APPL-SN-141220	c 33	N70-37979 *	US-PATENT-APPL-SN-156059	c 37	N90-19602 *	US-PATENT-APPL-SN-175852	c 25	N73-25760 *
US-PATENT-APPL-SN-142583	c 37	N79-33469 *	US-PATENT-APPL-SN-156393	c 35	N88-24941 *	US-PATENT-APPL-SN-175881	c 09	N73-15235 *
US-PATENT-APPL-SN-142662	c 23	N73-13661 *	US-PATENT-APPL-SN-156518	c 74	N89-25689 *	US-PATENT-APPL-SN-175981	c 16	N73-30476 *
US-PATENT-APPL-SN-142719	c 14	N73-14429 *	US-PATENT-APPL-SN-156724	c 21	N73-13643 *	US-PATENT-APPL-SN-175983	c 31	N73-32750 *
US-PATENT-APPL-SN-143078	c 08	N72-33172 *	US-PATENT-APPL-SN-156725	c 14	N73-27377 *	US-PATENT-APPL-SN-176545	c 31	N88-24817 *
US-PATENT-APPL-SN-143434	c 60	N90-21525 *	US-PATENT-APPL-SN-156778	c 17	N72-28535 *	US-PATENT-APPL-SN-176547	c 76	N90-24168 *
US-PATENT-APPL-SN-143436	c 35	N89-14423 *	US-PATENT-APPL-SN-156790	c 25	N82-29371 *	US-PATENT-APPL-SN-176587	c 20	N88-24684 *
US-PATENT-APPL-SN-143508	c 33	N74-12913 *	US-PATENT-APPL-SN-157150	c 37	N84-33808 *	US-PATENT-APPL-SN-176587	c 37	N91-32508 *
US-PATENT-APPL-SN-144139	c 11	N73-26238 *	US-PATENT-APPL-SN-158530	c 27	N83-19900 *	US-PATENT-APPL-SN-177684	c 28	N70-34860 *
US-PATENT-APPL-SN-144803	c 11	N70-34844 *	US-PATENT-APPL-SN-158914	c 11	N70-36913 *	US-PATENT-APPL-SN-177753	c 07	N72-20154 *
US-PATENT-APPL-SN-144804	c 14	N70-39898 *	US-PATENT-APPL-SN-158916	c 05	N70-41819 *	US-PATENT-APPL-SN-177985	c 35	N74-15831 *
US-PATENT-APPL-SN-14488	c 09	N70-38995 *	US-PATENT-APPL-SN-159071	c 25	N90-23497 *	US-PATENT-APPL-SN-178192	c 25	N83-33977 *
US-PATENT-APPL-SN-144958	c 09	N72-20206 *	US-PATENT-APPL-SN-159071	c 23	N91-17141 *	US-PATENT-APPL-SN-178193	c 52	N82-29862 *
US-PATENT-APPL-SN-145007	c 18	N70-36400 *	US-PATENT-APPL-SN-159072	c 18	N89-25266 *	US-PATENT-APPL-SN-178195	c 35	N82-24470 *
US-PATENT-APPL-SN-145026	c 06	N72-25152 *	US-PATENT-APPL-SN-159613	c 35	N88-24943 *	US-PATENT-APPL-SN-178213	c 25	N70-33267 *
US-PATENT-APPL-SN-145027	c 06	N73-32029 *	US-PATENT-APPL-SN-159613	c 36	N90-17132 *	US-PATENT-APPL-SN-178215	c 25	N70-34661 *
US-PATENT-APPL-SN-145107	c 27	N82-16238 *	US-PATENT-APPL-SN-159804	c 11	N70-38196 *	US-PATENT-APPL-SN-178721	c 03	N70-35408 *
US-PATENT-APPL-SN-145206	c 32	N82-11336 *	US-PATENT-APPL-SN-159857	c 05	N73-26072 *	US-PATENT-APPL-SN-178771	c 23	N75-14834 *
US-PATENT-APPL-SN-145207	c 25	N82-28368 *	US-PATENT-APPL-SN-159966	c 31	N73-26876 *	US-PATENT-APPL-SN-180230	c 33	N83-18996 *
US-PATENT-APPL-SN-145208	c 34	N83-34221 *	US-PATENT-APPL-SN-160093	c 04	N78-17031 *	US-PATENT-APPL-SN-180370	c 28	N70-33375 *
US-PATENT-APPL-SN-145209	c 27	N82-29453 *	US-PATENT-APPL-SN-160059	c 32	N73-26910 *	US-PATENT-APPL-SN-180374	c 28	N70-38181 *
US-PATENT-APPL-SN-145210	c 09	N82-23254 *	US-PATENT-APPL-SN-160680	c 18	N73-32437 *	US-PATENT-APPL-SN-180377	c 15	N70-36908 *
US-PATENT-APPL-SN-145271	c 23	N81-29160 *	US-PATENT-APPL-SN-161028	c 14	N73-19420 *	US-PATENT-APPL-SN-180379	c 21	N70-35395 *
US-PATENT-APPL-SN-145272	c 33	N82-28545 *	US-PATENT-APPL-SN-161254	c 27	N82-28441 *	US-PATENT-APPL-SN-180380	c 09	N70-38998 *
US-PATENT-APPL-SN-145273	c 51	N81-32829 *	US-PATENT-APPL-SN-161255	c 28	N81-24280 *	US-PATENT-APPL-SN-180381	c 21	N70-35089 *
US-PATENT-APPL-SN-145282	c 74	N82-24072 *	US-PATENT-APPL-SN-161256	c 44	N82-32841 *	US-PATENT-APPL-SN-180382	c 28	N70-38645 *
US-PATENT-APPL-SN-145283	c 27	N81-24256 *	US-PATENT-APPL-SN-161257	c 37	N85-29282 *	US-PATENT-APPL-SN-180384	c 11	N70-38675 *
US-PATENT-APPL-SN-145284	c 27	N82-24338 *	US-PATENT-APPL-SN-161681	c 76	N90-24169 *	US-PATENT-APPL-SN-180391	c 28	N70-38249 *
US-PATENT-APPL-SN-145719	c 25	N90-20154 *	US-PATENT-APPL-SN-161682	c 37	N91-14613 *	US-PATENT-APPL-SN-180392	c 09	N71-13530 *
US-PATENT-APPL-SN-146217	c 14	N71-34389 *	US-PATENT-APPL-SN-162100	c 33	N74-14939 *	US-PATENT-APPL-SN-180394	c 15	N70-38603 *
US-PATENT-APPL-SN-146935	c 14	N73-20475 *	US-PATENT-APPL-SN-162101	c 14	N73-24473 *	US-PATENT-APPL-SN-180395	c 15	N70-36947 *
US-PATENT-APPL-SN-146938	c 35	N88-23963 *	US-PATENT-APPL-SN-162230	c 26	N72-28761 *	US-PATENT-APPL-SN-180396	c 11	N70-38202 *
US-PATENT-APPL-SN-146939	c 73	N75-30876 *	US-PATENT-APPL-SN-162380	c 36	N74-21091 *	US-PATENT-APPL-SN-180473	c 28	N73-27699 *
US-PATENT-APPL-SN-146939	c 35	N92-21710 *	US-PATENT-APPL-SN-163122	c 07	N83-31603 *	US-PATENT-APPL-SN-180683	c 10	N73-25241 *
US-PATENT-APPL-SN-146940	c 05	N73-32014 *	US-PATENT-APPL-SN-163151	c 74	N75-25706 *	US-PATENT-APPL-SN-180963	c 14	N73-27378 *
US-PATENT-APPL-SN-147099	c 14	N73-13417 *	US-PATENT-APPL-SN-163152	c 17	N73-27446 *	US-PATENT-APPL-SN-181023	c 15	N73-26472 *
US-PATENT-APPL-SN-147103	c 10	N73-20253 *	US-PATENT-APPL-SN-163837	c 47	N83-32232 *	US-PATENT-APPL-SN-181024	c 07	N73-26117 *
US-PATENT-APPL-SN-147695	c 32	N84-27952 *	US-PATENT-APPL-SN-163838	c 23	N82-28353 *	US-PATENT-APPL-SN-181828	c 02	N70-34858 *
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US-PATENT-APPL-SN-147922	c 28	N73-19793 *	US-PATENT-APPL-SN-163928	c 27	N90-16949 *	US-PATENT-APPL-SN-182000	c 16	N88-24660 *
US-PATENT-APPL-SN-147940	c 14	N72-10375 *	US-PATENT-APPL-SN-164-584	c 24	N83-33950 *	US-PATENT-APPL-SN-182033	c 33	N73-27796 *
US-PATENT-APPL-SN-147996	c 28	N73-24784 *	US-PATENT-APPL-SN-164428	c 09	N70-35440 *	US-PATENT-APPL-SN-182266	c 17	N91-14371 *
US-PATENT-APPL-SN-147997	c 15	N72-33477 *	US-PATENT-APPL-SN-164617	c 06	N81-17057 *	US-PATENT-APPL-SN-182399	c 07	N73-28013 *
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US-PATENT-APPL-SN-149283	c 35	N74-17153 *	US-PATENT-APPL-SN-165945	c 35	N90-22025 *	US-PATENT-APPL-SN-182698	c 15	N70-38620 *
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US-PATENT-APPL-SN-149883	c 31	N72-21893 *	US-PATENT-APPL-SN-166969	c 15	N70-34249 *	US-PATENT-APPL-SN-182977	c 39	N74-13131 *
US-PATENT-APPL-SN-150040	c 36	N82-29589 *	US-PATENT-APPL-SN-166970	c 15	N70-36409 *	US-PATENT-APPL-SN-182978	c 16	N73-13489 *
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US-PATENT-APPL-SN-15020	c 14	N70-34697 *	US-PATENT-APPL-SN-168560	c 02	N70-34856 *	US-PATENT-APPL-SN-183977	c 28	N70-38505 *
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US-PATENT-APPL-SN-15022	c 15	N72-21465 *	US-PATENT-APPL-SN-168943	c 54	N82-26987 *	US-PATENT-APPL-SN-184090	c 14	N73-32327 *
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US-PATENT-APPL-SN-15024	c 09	N72-21245 *	US-PATENT-APPL-SN-169671	c 10	N73-30205 *	US-PATENT-APPL-SN-184234	c 76	N90-19884 *
US-PATENT-APPL-SN-15025	c 03	N72-20033 *	US-PATENT-APPL-SN-169962	c 34	N74-30608 *	US-PATENT-APPL-SN-184235	c 32	N90-17005 *
US-PATENT-APPL-SN-150690	c 35	N79-33450 *	US-PATENT-APPL-SN-169977	c 14	N70-34794 *	US-PATENT-APPL-SN-184236	c 37	N90-17153 *
US-PATENT-APPL-SN-151112	c 15	N70-34814 *	US-PATENT-APPL-SN-170447	c 15	N73-13462 *	US-PATENT-APPL-SN-18427	c 09	N72-23172 *
US-PATENT-APPL-SN-151114	c 31	N70-34176 *	US-PATENT-APPL-SN-170544	c 36	N77-19416 *	US-PATENT-APPL-SN-184649	c 07	N70-36911 *
US-PATENT-APPL-SN-151411	c 07	N73-26118 *	US-PATENT-APPL-SN-170680	c 34	N74-15652 *	US-PATENT-APPL-SN-184960	c 06	N73-27980 *
US-PATENT-APPL-SN-151412	c 09	N73-32112 *	US-PATENT-APPL-SN-170681	c 10	N73-25240 *	US-PATENT-APPL-SN-185865	c 52	N80-33081 *
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US-PATENT-APPL-SN-186700	c 32	N74-12912 *	US-PATENT-APPL-SN-200770	c 09	N79-21084 *	US-PATENT-APPL-SN-217725	c 35	N91-15511 *
US-PATENT-APPL-SN-186881	c 74	N82-30071 *	US-PATENT-APPL-SN-200874	c 17	N88-28946 *	US-PATENT-APPL-SN-218585	c 27	N82-24340 *
US-PATENT-APPL-SN-187106	c 74	N83-17305 *	US-PATENT-APPL-SN-201700	c 33	N74-17930 *	US-PATENT-APPL-SN-218586	c 36	N81-22344 *
US-PATENT-APPL-SN-187143	c 36	N74-13205 *	US-PATENT-APPL-SN-201782	c 15	N73-19458 *	US-PATENT-APPL-SN-218587	c 27	N82-28440 *
US-PATENT-APPL-SN-187262	c 15	N73-27406 *	US-PATENT-APPL-SN-201904	c 15	N73-30458 *	US-PATENT-APPL-SN-218588	c 27	N82-33521 *
US-PATENT-APPL-SN-187365	c 35	N74-15127 *	US-PATENT-APPL-SN-201904	c 37	N74-15128 *	US-PATENT-APPL-SN-218792	c 27	N91-31307 *
US-PATENT-APPL-SN-187446	c 31	N70-37924 *	US-PATENT-APPL-SN-202024	c 14	N70-34156 *	US-PATENT-APPL-SN-218965	c 10	N73-32145 *
US-PATENT-APPL-SN-187716	c 74	N88-25305 *	US-PATENT-APPL-SN-202029	c 11	N70-34786 *	US-PATENT-APPL-SN-219016	c 27	N92-10090 *
US-PATENT-APPL-SN-187776	c 28	N70-33284 *	US-PATENT-APPL-SN-202030	c 31	N71-10747 *	US-PATENT-APPL-SN-21906	c 09	N72-17157 *
US-PATENT-APPL-SN-18780	c 12	N70-33305 *	US-PATENT-APPL-SN-202030	c 31	N71-10747 *	US-PATENT-APPL-SN-219295	c 61	N91-14741 *
US-PATENT-APPL-SN-188160	c 74	N82-19029 *	US-PATENT-APPL-SN-202228	c 34	N82-11399 *	US-PATENT-APPL-SN-219435	c 24	N74-27035 *
US-PATENT-APPL-SN-188594	c 15	N70-34967 *	US-PATENT-APPL-SN-202228	c 34	N85-29179 *	US-PATENT-APPL-SN-219436	c 15	N72-21489 *
US-PATENT-APPL-SN-188836	c 35	N74-34857 *	US-PATENT-APPL-SN-202750	c 19	N74-21015 *	US-PATENT-APPL-SN-219590	c 06	N73-32030 *
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US-PATENT-APPL-SN-188928	c 37	N74-13178 *	US-PATENT-APPL-SN-203177	c 39	N88-25011 *	US-PATENT-APPL-SN-219677	c 44	N82-31764 *
US-PATENT-APPL-SN-189290	c 14	N73-27379 *	US-PATENT-APPL-SN-203178	c 34	N90-19534 *	US-PATENT-APPL-SN-219678	c 44	N82-29709 *
US-PATENT-APPL-SN-189375	c 18	N73-14584 *	US-PATENT-APPL-SN-203178	c 34	N91-31596 *	US-PATENT-APPL-SN-219680	c 27	N82-28442 *
US-PATENT-APPL-SN-189438	c 35	N76-15431 *	US-PATENT-APPL-SN-203271	c 51	N74-15778 *	US-PATENT-APPL-SN-219681	c 24	N82-29362 *
US-PATENT-APPL-SN-189648	c 32	N70-36536 *	US-PATENT-APPL-SN-203374	c 32	N91-25316 *	US-PATENT-APPL-SN-219681	c 54	N84-11758 *
US-PATENT-APPL-SN-18982	c 28	N72-11708 *	US-PATENT-APPL-SN-203405	c 02	N73-26006 *	US-PATENT-APPL-SN-219722	c 03	N75-30132 *
US-PATENT-APPL-SN-190185	c 74	N88-25304 *	US-PATENT-APPL-SN-203409	c 28	N70-38197 *	US-PATENT-APPL-SN-219806	c 07	N74-28226 *
US-PATENT-APPL-SN-190316	c 17	N73-32414 *	US-PATENT-APPL-SN-203411	c 33	N70-34812 *	US-PATENT-APPL-SN-219968	c 33	N83-27126 *
US-PATENT-APPL-SN-191301	c 25	N74-12813 *	US-PATENT-APPL-SN-20370	c 33	N79-33393 *	US-PATENT-APPL-SN-220212	c 33	N83-31952 *
US-PATENT-APPL-SN-191744	c 33	N82-29538 *	US-PATENT-APPL-SN-204015	c 09	N70-38201 *	US-PATENT-APPL-SN-220213	c 37	N85-20337 *
US-PATENT-APPL-SN-191746	c 26	N81-16209 *	US-PATENT-APPL-SN-205047	c 15	N73-32360 *	US-PATENT-APPL-SN-220214	c 44	N82-29710 *
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US-PATENT-APPL-SN-191748	c 35	N82-31659 *	US-PATENT-APPL-SN-205675	c 14	N73-30386 *	US-PATENT-APPL-SN-220274	c 31	N72-20840 *
US-PATENT-APPL-SN-192016	c 03	N70-36778 *	US-PATENT-APPL-SN-205771	c 31	N89-29578 *	US-PATENT-APPL-SN-220274	c 18	N74-22136 *
US-PATENT-APPL-SN-192101	c 10	N73-20254 *	US-PATENT-APPL-SN-205898	c 09	N90-23415 *	US-PATENT-APPL-SN-220785	c 85	N74-34672 *
US-PATENT-APPL-SN-192141	c 07	N73-24176 *	US-PATENT-APPL-SN-205899	c 35	N90-22769 *	US-PATENT-APPL-SN-221093	c 17	N73-32415 *
US-PATENT-APPL-SN-192562	c 04	N91-31120 *	US-PATENT-APPL-SN-205900	c 35	N90-22770 *	US-PATENT-APPL-SN-221276	c 14	N70-41955 *
US-PATENT-APPL-SN-192563	c 05	N90-23390 *	US-PATENT-APPL-SN-206266	c 76	N74-20329 *	US-PATENT-APPL-SN-221386	c 23	N90-21118 *
US-PATENT-APPL-SN-192803	c 07	N73-22076 *	US-PATENT-APPL-SN-206266	c 76	N75-25730 *	US-PATENT-APPL-SN-221386	c 23	N91-14418 *
US-PATENT-APPL-SN-192803	c 35	N76-16391 *	US-PATENT-APPL-SN-206279	c 02	N73-26005 *	US-PATENT-APPL-SN-221388	c 37	N90-20408 *
US-PATENT-APPL-SN-192970	c 23	N73-30665 *	US-PATENT-APPL-SN-206279	c 05	N76-29217 *	US-PATENT-APPL-SN-221472	c 54	N89-13889 *
US-PATENT-APPL-SN-193456	c 10	N73-25243 *	US-PATENT-APPL-SN-206506	c 33	N82-24422 *	US-PATENT-APPL-SN-221634	c 05	N70-34857 *
US-PATENT-APPL-SN-193612	c 37	N91-17388 *	US-PATENT-APPL-SN-206698	c 15	N73-30459 *	US-PATENT-APPL-SN-221637	c 26	N70-36805 *
US-PATENT-APPL-SN-193671	c 15	N73-12488 *	US-PATENT-APPL-SN-207135	c 35	N83-27184 *	US-PATENT-APPL-SN-221670	c 35	N77-14408 *
US-PATENT-APPL-SN-193672	c 54	N74-14845 *	US-PATENT-APPL-SN-207211	c 07	N73-30113 *	US-PATENT-APPL-SN-221685	c 35	N74-21062 *
US-PATENT-APPL-SN-193814	c 14	N73-30393 *	US-PATENT-APPL-SN-209478	c 07	N70-38200 *	US-PATENT-APPL-SN-221714	c 09	N73-32110 *
US-PATENT-APPL-SN-193947	c 14	N73-13420 *	US-PATENT-APPL-SN-209479	c 15	N70-34850 *	US-PATENT-APPL-SN-221833	c 09	N73-27150 *
US-PATENT-APPL-SN-193980	c 31	N74-13177 *	US-PATENT-APPL-SN-209535	c 28	N73-24783 *	US-PATENT-APPL-SN-221945	c 31	N70-36410 *
US-PATENT-APPL-SN-195061	c 05	N73-25125 *	US-PATENT-APPL-SN-20960	c 15	N72-17453 *	US-PATENT-APPL-SN-22265	c 14	N72-21405 *
US-PATENT-APPL-SN-195222	c 31	N91-15423 *	US-PATENT-APPL-SN-209618	c 33	N75-19520 *	US-PATENT-APPL-SN-223003	c 33	N70-36846 *
US-PATENT-APPL-SN-195223	c 35	N83-21311 *	US-PATENT-APPL-SN-209618	c 33	N75-25041 *	US-PATENT-APPL-SN-223122	c 37	N91-14614 *
US-PATENT-APPL-SN-195225	c 32	N88-26541 *	US-PATENT-APPL-SN-209801	c 08	N70-40125 *	US-PATENT-APPL-SN-223124	c 31	N90-19427 *
US-PATENT-APPL-SN-195226	c 31	N83-31895 *	US-PATENT-APPL-SN-210277	c 39	N88-30160 *	US-PATENT-APPL-SN-22320	c 14	N72-11365 *
US-PATENT-APPL-SN-195226	c 17	N90-21061 *	US-PATENT-APPL-SN-210405	c 74	N84-11921 *	US-PATENT-APPL-SN-223560	c 10	N73-32144 *
US-PATENT-APPL-SN-195227	c 74	N83-32577 *	US-PATENT-APPL-SN-210480	c 05	N90-20078 *	US-PATENT-APPL-SN-224231	c 06	N83-10040 *
US-PATENT-APPL-SN-195228	c 74	N83-10900 *	US-PATENT-APPL-SN-210486	c 26	N90-21170 *	US-PATENT-APPL-SN-224231	c 06	N84-34443 *
US-PATENT-APPL-SN-195346	c 15	N70-36492 *	US-PATENT-APPL-SN-210486	c 39	N92-28757 *	US-PATENT-APPL-SN-224232	c 36	N83-29680 *
US-PATENT-APPL-SN-195347	c 31	N70-34135 *	US-PATENT-APPL-SN-210486	c 39	N92-29101 *	US-PATENT-APPL-SN-224489	c 31	N74-18089 *
US-PATENT-APPL-SN-195547	c 32	N83-18975 *	US-PATENT-APPL-SN-210486	c 39	N92-29155 *	US-PATENT-APPL-SN-225427	c 37	N91-15544 *
US-PATENT-APPL-SN-195563	c 09	N91-14357 *	US-PATENT-APPL-SN-210487	c 35	N90-17117 *	US-PATENT-APPL-SN-225499	c 37	N84-12491 *
US-PATENT-APPL-SN-19572	c 35	N77-27368 *	US-PATENT-APPL-SN-210498	c 35	N84-12444 *	US-PATENT-APPL-SN-225501	c 44	N82-28780 *
US-PATENT-APPL-SN-19585	c 15	N72-25455 *	US-PATENT-APPL-SN-210506	c 39	N83-32081 *	US-PATENT-APPL-SN-226476	c 10	N73-32143 *
US-PATENT-APPL-SN-196399	c 07	N73-25161 *	US-PATENT-APPL-SN-210632	c 26	N83-10170 *	US-PATENT-APPL-SN-226477	c 74	N74-27866 *
US-PATENT-APPL-SN-196877	c 35	N84-17555 *	US-PATENT-APPL-SN-211332	c 02	N74-10034 *	US-PATENT-APPL-SN-226551	c 06	N73-26100 *
US-PATENT-APPL-SN-196898	c 38	N74-15130 *	US-PATENT-APPL-SN-211411	c 11	N73-20267 *	US-PATENT-APPL-SN-227682	c 14	N70-34161 *
US-PATENT-APPL-SN-196931	c 35	N74-17885 *	US-PATENT-APPL-SN-211464	c 28	N70-36910 *	US-PATENT-APPL-SN-227683	c 02	N70-36804 *
US-PATENT-APPL-SN-196970	c 15	N73-33383 *	US-PATENT-APPL-SN-212028	c 09	N73-14214 *	US-PATENT-APPL-SN-227692	c 14	N70-40003 *
US-PATENT-APPL-SN-197183	c 02	N76-22154 *	US-PATENT-APPL-SN-212165	c 14	N73-25460 *	US-PATENT-APPL-SN-227977	c 25	N76-18245 *
US-PATENT-APPL-SN-197191	c 32	N89-28672 *	US-PATENT-APPL-SN-212173	c 02	N71-13421 *	US-PATENT-APPL-SN-228049	c 37	N79-33467 *
US-PATENT-APPL-SN-197548	c 09	N70-34502 *	US-PATENT-APPL-SN-212174	c 15	N70-34859 *	US-PATENT-APPL-SN-228150	c 05	N73-32013 *
US-PATENT-APPL-SN-197551	c 31	N70-34296 *	US-PATENT-APPL-SN-212496	c 03	N70-36803 *	US-PATENT-APPL-SN-228163	c 44	N74-19693 *
US-PATENT-APPL-SN-197553	c 08	N70-34778 *	US-PATENT-APPL-SN-212497	c 11	N71-28779 *	US-PATENT-APPL-SN-228189	c 35	N74-11283 *
US-PATENT-APPL-SN-197554	c 14	N70-35368 *	US-PATENT-APPL-SN-21263	c 01	N71-12217 *	US-PATENT-APPL-SN-228190	c 23	N73-30666 *
US-PATENT-APPL-SN-197689	c 31	N74-14133 *	US-PATENT-APPL-SN-212900	c 14	N73-25462 *	US-PATENT-APPL-SN-228229	c 27	N77-31308 *
US-PATENT-APPL-SN-197689	c 31	N75-13111 *	US-PATENT-APPL-SN-212921	c 07	N73-20176 *	US-PATENT-APPL-SN-228507	c 11	N70-38182 *
US-PATENT-APPL-SN-197870	c 14	N73-32322 *	US-PATENT-APPL-SN-212949	c 35	N83-35338 *	US-PATENT-APPL-SN-228569	c 14	N71-16014 *
US-PATENT-APPL-SN-198093	c 39	N83-20280 *	US-PATENT-APPL-SN-212977	c 15	N73-30460 *	US-PATENT-APPL-SN-229128	c 14	N73-28490 *
US-PATENT-APPL-SN-198285	c 09	N73-13208 *	US-PATENT-APPL-SN-213004	c 14	N73-19421 *	US-PATENT-APPL-SN-229143	c 09	N72-21248 *
US-PATENT-APPL-SN-198289	c 14	N73-32326 *	US-PATENT-APPL-SN-213392	c 27	N90-23566 *	US-PATENT-APPL-SN-229143	c 33	N77-26387 *
US-PATENT-APPL-SN-198355	c 05	N72-15098 *	US-PATENT-APPL-SN-213558	c 51	N91-30667 *	US-PATENT-APPL-SN-229231	c 35	N83-34272 *
US-PATENT-APPL-SN-198362	c 14	N73-28489 *	US-PATENT-APPL-SN-213558	c 51	N92-34229 *	US-PATENT-APPL-SN-229233	c 27	N83-31855 *
US-PATENT-APPL-SN-198379	c 15	N73-32359 *	US-PATENT-APPL-SN-213558	c 51	N92-34231 *	US-PATENT-APPL-SN-229239	c 31	N83-31897 *
US-PATENT-APPL-SN-198472	c 27	N74-12812 *	US-PATENT-APPL-SN-213559	c 51	N91-21700 *	US-PATENT-APPL-SN-229286	c 33	N71-29052 *
US-PATENT-APPL-SN-198763	c 31	N74-18124 *	US-PATENT-APPL-SN-213559	c 51	N92-34229 *	US-PATENT-APPL-SN-229287	c 35	N78-29421 *
US-PATENT-APPL-SN-198763	c 31	N74-32920 *	US-PATENT-APPL-SN-213559	c 51	N92-34231 *	US-PATENT-APPL-SN-229354	c 62	N74-14920 *
US-PATENT-APPL-SN-198885	c 05	N73-27062 *	US-PATENT-APPL-SN-213836	c 15	N70-38601 *	US-PATENT-APPL-SN-229413	c 14	N73-32323 *
US-PATENT-APPL-SN-199199	c 25	N71-29184 *	US-PATENT-APPL-SN-213880	c 54	N90-25498 *	US-PATENT-APPL-SN-229693	c 37	N84-22958 *
US-PATENT-APPL-SN-199202	c 14	N70-40239 *	US-PATENT-APPL-SN-213949	c 07	N73-20175 *	US-PATENT-APPL-SN-229916	c 46	N74-13011 *
US-PATENT-APPL-SN-19971	c 09	N70-33312 *	US-PATENT-APPL-SN-214006	c 37	N74-18126 *	US-PATENT-APPL-SN-230613	c 05	N83-27975 *
US-PATENT-APPL-SN-199765	c 33	N81-12330 *	US-PATENT-APPL-SN-214084	c 37	N74-18123 *	US-PATENT-APPL-SN-231025	c 33	N88-29095 *
US-PATENT-APPL-SN-199766	c 36	N84-28065 *	US-PATENT-APPL-SN-214086	c 14	N73-30395 *	US-PATENT-APPL-SN-231026	c 27	N91-15402 *
US-PATENT-APPL-SN-199767	c 33	N83-16626 *	US-PATENT-APPL-SN-214089	c 35	N74-21018 *	US-PATENT-APPL-SN-231027	c 27	N90-21177 *
US-PATENT-APPL-SN-199768	c 27	N84-22746 *	US-PATENT-APPL-SN-214361	c 37	N83-32067 *	US-PATENT-APPL-SN-23132	c 08	N72-22163 *
US-PATENT-APPL-SN-199768	c 27	N85-20123 *	US-PATENT-APPL-SN-21508	c 08	N73-21676 *	US-PATENT-APPL-SN-231520	c 27	N71-29155 *
US-PATENT-APPL-SN-199769	c 26	N82-31505 *	US-PATENT-APPL-SN-21644	c 05	N72-22092 *	US-PATENT-APPL-SN-231543	c 07	N83-20944 *
US-PATENT-APPL-SN-199957	c 10	N73-26229 *	US-PATENT-APPL-SN-216710	c 12	N70-38997 *	US-PATENT-APPL-SN-231604	c 28	N70-39925 *
US-PATENT-APPL-SN-200040	c 52	N74-10975 *	US-PATENT-APPL-SN-216711	c 03	N70-34157 *	US-PATENT-APPL-SN-231662	c 14	N73-30392 *
US-PATENT-APPL-SN-200085	c 26	N73-26751 *	US-PATENT-APPL-SN-216939	c 14	N70-40400 *	US-PATENT-APPL-SN-232021	c 04	N74-13420 *
US-PATENT-APPL-SN-200634	c 34	N83-27144 *	US-PATENT-APPL-SN-217213	c 37	N74-11301 *	US-PATENT-APPL-SN-232318	c 11	N71-15960 *
US-PATENT-APPL-SN-2								

US-PATENT-APPL-SN-233098	c 12	N73-25262 *	US-PATENT-APPL-SN-244440	c 21	N73-19630 * #	US-PATENT-APPL-SN-258931	c 14	N70-40203 *
US-PATENT-APPL-SN-233173	c 12	N73-28144 *	US-PATENT-APPL-SN-244440	c 14	N73-32320 *	US-PATENT-APPL-SN-258932	c 05	N70-36493 *
US-PATENT-APPL-SN-233269	c 76	N82-30105 *	US-PATENT-APPL-SN-244519	c 37	N74-18125 *	US-PATENT-APPL-SN-259056	c 27	N82-29455 *
US-PATENT-APPL-SN-233270	c 52	N83-27578 *	US-PATENT-APPL-SN-244523	c 31	N73-30829 *	US-PATENT-APPL-SN-259208	c 44	N85-30474 *
US-PATENT-APPL-SN-233271	c 27	N83-34043 *	US-PATENT-APPL-SN-244566	c 74	N74-20008 *	US-PATENT-APPL-SN-259209	c 01	N83-35992 *
US-PATENT-APPL-SN-233519	c 20	N74-13502 *	US-PATENT-APPL-SN-245063	c 33	N74-11049 *	US-PATENT-APPL-SN-259210	c 32	N83-27085 *
US-PATENT-APPL-SN-233587	c 16	N72-22520 * #	US-PATENT-APPL-SN-245279	c 25	N74-30502 *	US-PATENT-APPL-SN-259211	c 44	N84-14583 *
US-PATENT-APPL-SN-233743	c 37	N74-13179 *	US-PATENT-APPL-SN-245571	c 07	N84-22560 *	US-PATENT-APPL-SN-259212	c 35	N84-22931 *
US-PATENT-APPL-SN-234222	c 34	N85-21568 *	US-PATENT-APPL-SN-245941	c 33	N71-17897 *	US-PATENT-APPL-SN-259487	c 33	N70-36847 *
US-PATENT-APPL-SN-234223	c 35	N83-21312 *	US-PATENT-APPL-SN-246032	c 32	N91-14523 *	US-PATENT-APPL-SN-260087	c 21	N71-21688 *
US-PATENT-APPL-SN-234224	c 36	N83-34304 *	US-PATENT-APPL-SN-246056	c 38	N74-15395 *	US-PATENT-APPL-SN-260093	c 25	N74-26948 *
US-PATENT-APPL-SN-234225	c 33	N83-36357 *	US-PATENT-APPL-SN-246294	c 27	N82-29454 *	US-PATENT-APPL-SN-260241	c 74	N74-21304 *
US-PATENT-APPL-SN-234568	c 28	N70-34788 *	US-PATENT-APPL-SN-246295	c 27	N82-29452 *	US-PATENT-APPL-SN-260762	c 72	N91-14813 *
US-PATENT-APPL-SN-235150	c 36	N91-15528 *	US-PATENT-APPL-SN-246594	c 37	N90-23742 *	US-PATENT-APPL-SN-261183	c 09	N74-30597 *
US-PATENT-APPL-SN-235162	c 08	N71-12501 *	US-PATENT-APPL-SN-246595	c 35	N89-12842 * #	US-PATENT-APPL-SN-261912	c 14	N70-34818 *
US-PATENT-APPL-SN-235266	c 26	N73-32571 *	US-PATENT-APPL-SN-246772	c 44	N83-10494 *	US-PATENT-APPL-SN-261917	c 09	N70-40272 *
US-PATENT-APPL-SN-235268	c 36	N74-15145 *	US-PATENT-APPL-SN-246773	c 35	N83-29650 *	US-PATENT-APPL-SN-261918	c 28	N70-41447 *
US-PATENT-APPL-SN-235269	c 09	N73-30181 *	US-PATENT-APPL-SN-246774	c 34	N83-31993 *	US-PATENT-APPL-SN-262268	c 24	N91-25200 *
US-PATENT-APPL-SN-235295	c 09	N73-30185 *	US-PATENT-APPL-SN-246777	c 45	N83-25217 *	US-PATENT-APPL-SN-262430	c 35	N74-18323 *
US-PATENT-APPL-SN-23532	c 07	N72-21117 *	US-PATENT-APPL-SN-246778	c 36	N83-35350 *	US-PATENT-APPL-SN-262596	c 14	N71-28958 *
US-PATENT-APPL-SN-235338	c 71	N74-31148 *	US-PATENT-APPL-SN-247055	c 37	N74-11300 *	US-PATENT-APPL-SN-262596	c 62	N76-31946 *
US-PATENT-APPL-SN-235472	c 60	N84-28492 *	US-PATENT-APPL-SN-247090	c 37	N74-18128 *	US-PATENT-APPL-SN-262851	c 74	N90-22383 *
US-PATENT-APPL-SN-235588	c 28	N71-28928 *	US-PATENT-APPL-SN-247136	c 14	N71-30265 *	US-PATENT-APPL-SN-263230	c 33	N74-20860 *
US-PATENT-APPL-SN-235796	c 35	N82-28604 *	US-PATENT-APPL-SN-247419	c 14	N70-36907 *	US-PATENT-APPL-SN-263498	c 34	N74-27659 *
US-PATENT-APPL-SN-235797	c 44	N83-32175 *	US-PATENT-APPL-SN-247423	c 01	N71-13410 *	US-PATENT-APPL-SN-263775	c 02	N70-33286 *
US-PATENT-APPL-SN-235868	c 34	N83-29625 *	US-PATENT-APPL-SN-247434	c 25	N76-29379 *	US-PATENT-APPL-SN-263775	c 02	N70-34858 *
US-PATENT-APPL-SN-235957	c 14	N73-27376 * #	US-PATENT-APPL-SN-247434	c 25	N76-27383 *	US-PATENT-APPL-SN-263815	c 09	N74-17955 *
US-PATENT-APPL-SN-235962	c 36	N74-11313 *	US-PATENT-APPL-SN-247481	c 05	N73-26071 *	US-PATENT-APPL-SN-263828	c 34	N83-19015 *
US-PATENT-APPL-SN-236052	c 14	N72-25428 * #	US-PATENT-APPL-SN-248009	c 23	N91-27220 *	US-PATENT-APPL-SN-263829	c 05	N84-12154 *
US-PATENT-APPL-SN-236281	c 09	N73-20232 *	US-PATENT-APPL-SN-248010	c 37	N89-12866 * #	US-PATENT-APPL-SN-263830	c 44	N83-28573 *
US-PATENT-APPL-SN-236285	c 08	N73-26175 *	US-PATENT-APPL-SN-248018	c 24	N90-25197 *	US-PATENT-APPL-SN-263957	c 52	N83-25346 *
US-PATENT-APPL-SN-236748	c 14	N70-40157 *	US-PATENT-APPL-SN-248019	c 76	N89-14120 * #	US-PATENT-APPL-SN-264107	c 35	N90-22023 *
US-PATENT-APPL-SN-236749	c 15	N70-40180 *	US-PATENT-APPL-SN-248020	c 35	N90-23706 *	US-PATENT-APPL-SN-264268	c 31	N78-17238 *
US-PATENT-APPL-SN-236985	c 44	N74-19692 *	US-PATENT-APPL-SN-248469	c 14	N73-32318 *	US-PATENT-APPL-SN-264326	c 63	N91-31885 *
US-PATENT-APPL-SN-237029	c 09	N73-32108 *	US-PATENT-APPL-SN-248471	c 31	N74-27902 *	US-PATENT-APPL-SN-264378	c 24	N83-10117 *
US-PATENT-APPL-SN-237035	c 35	N91-15512 *	US-PATENT-APPL-SN-248744	c 05	N83-19737 *	US-PATENT-APPL-SN-264378	c 70	N84-28565 *
US-PATENT-APPL-SN-237036	c 34	N90-20323 *	US-PATENT-APPL-SN-248745	c 18	N83-29303 *	US-PATENT-APPL-SN-264380	c 44	N83-14692 *
US-PATENT-APPL-SN-237491	c 05	N75-12930 *	US-PATENT-APPL-SN-248746	c 37	N83-36482 *	US-PATENT-APPL-SN-264381	c 52	N84-28388 *
US-PATENT-APPL-SN-237657	c 31	N90-21216 *	US-PATENT-APPL-SN-248761	c 15	N74-27360 *	US-PATENT-APPL-SN-264381	c 52	N84-28389 *
US-PATENT-APPL-SN-237694	c 35	N74-11284 *	US-PATENT-APPL-SN-248985	c 03	N71-29129 *	US-PATENT-APPL-SN-264728	c 30	N70-40016 *
US-PATENT-APPL-SN-238047	c 33	N74-12951 *	US-PATENT-APPL-SN-249304	c 35	N84-14491 *	US-PATENT-APPL-SN-264729	c 33	N70-34540 *
US-PATENT-APPL-SN-238257	c 07	N84-33410 *	US-PATENT-APPL-SN-249537	c 14	N71-10797 *	US-PATENT-APPL-SN-264731	c 09	N70-41655 *
US-PATENT-APPL-SN-238263	c 35	N74-10415 *	US-PATENT-APPL-SN-249539	c 28	N71-15658 *	US-PATENT-APPL-SN-264735	c 28	N70-33265 *
US-PATENT-APPL-SN-238264	c 37	N74-21061 *	US-PATENT-APPL-SN-249540	c 15	N70-34861 *	US-PATENT-APPL-SN-264736	c 28	N70-36802 *
US-PATENT-APPL-SN-238264	c 37	N74-32921 *	US-PATENT-APPL-SN-249542	c 28	N70-41576 *	US-PATENT-APPL-SN-264993	c 05	N91-14345 *
US-PATENT-APPL-SN-238264	c 37	N76-15461 *	US-PATENT-APPL-SN-250195	c 34	N90-23700 *	US-PATENT-APPL-SN-26573	c 31	N72-22874 *
US-PATENT-APPL-SN-238421	c 28	N71-29153 *	US-PATENT-APPL-SN-250196	c 37	N89-12868 * #	US-PATENT-APPL-SN-266045	c 27	N91-15403 *
US-PATENT-APPL-SN-238785	c 44	N83-14693 *	US-PATENT-APPL-SN-250451	c 08	N70-34787 *	US-PATENT-APPL-SN-266107	c 11	N71-15925 *
US-PATENT-APPL-SN-238786	c 37	N82-26078 *	US-PATENT-APPL-SN-250468	c 05	N91-27156 *	US-PATENT-APPL-SN-266253	c 04	N84-22546 *
US-PATENT-APPL-SN-238790	c 44	N82-29708 *	US-PATENT-APPL-SN-250469	c 37	N90-22042 *	US-PATENT-APPL-SN-266254	c 24	N83-13172 *
US-PATENT-APPL-SN-238791	c 71	N84-14873 *	US-PATENT-APPL-SN-250480	c 27	N92-22044 *	US-PATENT-APPL-SN-266255	c 44	N83-27344 *
US-PATENT-APPL-SN-238826	c 28	N77-10213 *	US-PATENT-APPL-SN-250567	c 33	N71-24876 *	US-PATENT-APPL-SN-266256	c 24	N83-13171 *
US-PATENT-APPL-SN-238887	c 37	N81-22360 * #	US-PATENT-APPL-SN-250585	c 32	N85-21428 *	US-PATENT-APPL-SN-266687	c 32	N84-22820 *
US-PATENT-APPL-SN-238888	c 37	N84-28082 *	US-PATENT-APPL-SN-250661	c 23	N89-11814 * #	US-PATENT-APPL-SN-266688	c 37	N83-36483 *
US-PATENT-APPL-SN-239259	c 27	N90-23546 *	US-PATENT-APPL-SN-250662	c 37	N91-14615 *	US-PATENT-APPL-SN-266771	c 37	N74-18127 *
US-PATENT-APPL-SN-239260	c 37	N89-12867 * #	US-PATENT-APPL-SN-250766	c 07	N73-30115 *	US-PATENT-APPL-SN-266820	c 07	N74-31270 *
US-PATENT-APPL-SN-239573	c 33	N74-10223 *	US-PATENT-APPL-SN-250974	c 31	N71-15664 *	US-PATENT-APPL-SN-266822	c 32	N74-10132 *
US-PATENT-APPL-SN-239574	c 09	N73-32107 *	US-PATENT-APPL-SN-251009	c 33	N84-16452 *	US-PATENT-APPL-SN-266832	c 33	N74-10195 *
US-PATENT-APPL-SN-239575	c 09	N74-19528 *	US-PATENT-APPL-SN-251073	c 35	N90-23713 *	US-PATENT-APPL-SN-266866	c 33	N73-32818 *
US-PATENT-APPL-SN-239576	c 33	N74-14935 *	US-PATENT-APPL-SN-251411	c 09	N91-14356 *	US-PATENT-APPL-SN-266899	c 60	N74-12888 *
US-PATENT-APPL-SN-239577	c 35	N74-13132 *	US-PATENT-APPL-SN-251438	c 35	N90-23707 *	US-PATENT-APPL-SN-266911	c 36	N74-20009 *
US-PATENT-APPL-SN-239803	c 70	N74-13436 *	US-PATENT-APPL-SN-251439	c 31	N90-20254 *	US-PATENT-APPL-SN-266912	c 32	N74-19788 *
US-PATENT-APPL-SN-240760	c 15	N71-16075 *	US-PATENT-APPL-SN-251449	c 07	N70-40063 *	US-PATENT-APPL-SN-266913	c 31	N74-23065 *
US-PATENT-APPL-SN-241061	c 06	N72-27151 * #	US-PATENT-APPL-SN-251451	c 09	N70-35425 *	US-PATENT-APPL-SN-266925	c 54	N74-17853 *
US-PATENT-APPL-SN-241061	c 06	N73-33076 *	US-PATENT-APPL-SN-251499	c 24	N91-15320 *	US-PATENT-APPL-SN-266928	c 26	N74-10521 *
US-PATENT-APPL-SN-241085	c 14	N70-40238 *	US-PATENT-APPL-SN-251500	c 54	N92-29129 *	US-PATENT-APPL-SN-266930	c 54	N74-12779 *
US-PATENT-APPL-SN-241154	c 04	N84-27713 *	US-PATENT-APPL-SN-251609	c 05	N73-30078 *	US-PATENT-APPL-SN-266940	c 32	N74-32598 *
US-PATENT-APPL-SN-241155	c 27	N84-14324 *	US-PATENT-APPL-SN-251621	c 16	N73-32391 *	US-PATENT-APPL-SN-266943	c 72	N74-19310 *
US-PATENT-APPL-SN-24154	c 15	N70-35679 * #	US-PATENT-APPL-SN-251752	c 24	N74-30001 *	US-PATENT-APPL-SN-267146	c 37	N90-20409 *
US-PATENT-APPL-SN-24154	c 15	N72-17450 *	US-PATENT-APPL-SN-251755	c 28	N70-39895 *	US-PATENT-APPL-SN-267178	c 74	N84-11920 *
US-PATENT-APPL-SN-24155	c 14	N73-26432 *	US-PATENT-APPL-SN-252077	c 34	N90-21999 *	US-PATENT-APPL-SN-267179	c 35	N84-12445 *
US-PATENT-APPL-SN-241614	c 10	N73-27171 *	US-PATENT-APPL-SN-252078	c 24	N90-23480 *	US-PATENT-APPL-SN-267572	c 73	N74-26767 *
US-PATENT-APPL-SN-241615	c 09	N73-32111 *	US-PATENT-APPL-SN-252081	c 05	N90-20079 *	US-PATENT-APPL-SN-267768	c 70	N74-21300 *
US-PATENT-APPL-SN-242027	c 52	N74-12778 *	US-PATENT-APPL-SN-252259	c 33	N70-34545 *	US-PATENT-APPL-SN-267862	c 33	N74-21851 *
US-PATENT-APPL-SN-242028	c 21	N73-30641 *	US-PATENT-APPL-SN-252349	c 33	N74-11050 *	US-PATENT-APPL-SN-267935	c 71	N83-17235 *
US-PATENT-APPL-SN-242029	c 09	N72-20200 *	US-PATENT-APPL-SN-253405	c 10	N73-26228 *	US-PATENT-APPL-SN-269073	c 52	N74-26625 *
US-PATENT-APPL-SN-242253	c 03	N91-15142 *	US-PATENT-APPL-SN-253725	c 35	N74-13129 *	US-PATENT-APPL-SN-269212	c 07	N71-10775 *
US-PATENT-APPL-SN-242254	c 33	N91-31530 *	US-PATENT-APPL-SN-253774	c 25	N70-36946 *	US-PATENT-APPL-SN-269215	c 14	N70-41332 *
US-PATENT-APPL-SN-242662	c 74	N74-15095 *	US-PATENT-APPL-SN-254173	c 35	N75-13213 *	US-PATENT-APPL-SN-269222	c 15	N70-38225 *
US-PATENT-APPL-SN-242790	c 06	N83-33882 *	US-PATENT-APPL-SN-254177	c 10	N73-26230 *	US-PATENT-APPL-SN-269450	c 36	N76-18427 *
US-PATENT-APPL-SN-242795	c 18	N83-20996 *	US-PATENT-APPL-SN-254323	c 35	N76-15434 *	US-PATENT-APPL-SN-270118	c 33	N71-17610 *
US-PATENT-APPL-SN-242795	c 37	N84-22957 *	US-PATENT-APPL-SN-254575	c 25	N83-10126 *	US-PATENT-APPL-SN-270189	c 07	N89-23466 * #
US-PATENT-APPL-SN-242796	c 44	N83-13579 *	US-PATENT-APPL-SN-254688	c 52	N83-27577 *	US-PATENT-APPL-SN-270763	c 36	N84-14509 *
US-PATENT-APPL-SN-242797	c 74	N85-22139 *	US-PATENT-APPL-SN-254847	c 15	N71-22874 *	US-PATENT-APPL-SN-271265	c 71	N91-14807 *
US-PATENT-APPL-SN-243374	c 15	N77-10112 *	US-PATENT-APPL-SN-254887	c 08	N72-21197 *	US-PATENT-APPL-SN-271821	c 15	N71-10778 *
US-PATENT-APPL-SN-243682	c 74	N83-19596 *	US-PATENT-APPL-SN-254888	c 08	N72-25206 *	US-PATENT-APPL-SN-271822	c 15	N71-15967 *
US-PATENT-APPL-SN-243683	c 33	N81-22280 * #	US-PATENT-APPL-SN-255132	c 14	N71-15598 *	US-PATENT-APPL-SN-271823	c 27	N71-28929 *
US-PATENT-APPL-SN-243683	c 33	N83-28319 *	US-PATENT-APPL-SN-255377	c 52	N74-26626 *	US-PATENT-APPL-SN-271824	c 07	N71-21476 *
US-PATENT-APPL-SN-243683	c 33	N84-14424 *	US-PATENT-APPL-SN-256484	c 06	N70-34946 *	US-PATENT-APPL-SN-271951	c 35	N74-15092 *
US-PATENT-APPL-SN-243683	c 33	N84-33660 *	US-PATENT-APPL-SN-256493	c 20	N77-17143 *	US-PATENT-APPL-SN-272152	c 27	N83-29388 *
US-PATENT-APPL-SN-243684	c 37	N84-12492 *	US-PATENT-APPL-SN-257346	c 15	N70-36901 *	US-PATENT-APPL-SN-272233	c 44	N81-27615 * #
US-PATENT-APPL-SN-243685	c 05	N91-14345 *	US-PATENT-APPL-SN-257593	c 36	N90-25340 *	US-PATENT-APPL-SN-272234	c 25	N83-13188 *
US-PATENT-APPL-SN-244158	c 32	N74-20863 *	US-PATENT-APPL-SN-258152	c 35	N74-15090 *	US-PATENT-APPL-SN-272406		

US-PATENT-APPL-SN-273240	c 35	N74-16135 *	US-PATENT-APPL-SN-290873	c 10	N71-16058 *	US-PATENT-APPL-SN-307271	c 09	N71-22999 *
US-PATENT-APPL-SN-27340	c 15	N72-20442 *	US-PATENT-APPL-SN-290915	c 32	N74-11000 *	US-PATENT-APPL-SN-307714	c 03	N76-32140 *
US-PATENT-APPL-SN-273519	c 35	N75-25122 *	US-PATENT-APPL-SN-291131	c 33	N83-31953 *	US-PATENT-APPL-SN-307727	c 32	N74-20813 *
US-PATENT-APPL-SN-273534	c 09	N83-38712 *	US-PATENT-APPL-SN-291132	c 33	N83-35227 *	US-PATENT-APPL-SN-307728	c 34	N74-27861 *
US-PATENT-APPL-SN-274348	c 60	N76-18800 *	US-PATENT-APPL-SN-291645	c 60	N85-21992 *	US-PATENT-APPL-SN-307729	c 31	N74-27900 *
US-PATENT-APPL-SN-274360	c 32	N74-20809 *	US-PATENT-APPL-SN-291845	c 52	N74-27566 *	US-PATENT-APPL-SN-308007	c 44	N83-34448 *
US-PATENT-APPL-SN-274705	c 44	N83-21503 *	US-PATENT-APPL-SN-292037	c 33	N90-23635 *	US-PATENT-APPL-SN-308009	c 33	N83-36355 *
US-PATENT-APPL-SN-274706	c 44	N83-21504 *	US-PATENT-APPL-SN-292047	c 37	N89-29750 *	US-PATENT-APPL-SN-308021	c 27	N83-28240 *
US-PATENT-APPL-SN-274708	c 35	N84-22929 *	US-PATENT-APPL-SN-292049	c 23	N91-17141 *	US-PATENT-APPL-SN-308021	c 27	N85-21349 *
US-PATENT-APPL-SN-275118	c 35	N74-18088 *	US-PATENT-APPL-SN-292049	c 23	N91-25185 *	US-PATENT-APPL-SN-308023	c 34	N84-12406 *
US-PATENT-APPL-SN-275909	c 33	N85-21491 *	US-PATENT-APPL-SN-292121	c 18	N90-11798 *	US-PATENT-APPL-SN-308204	c 44	N83-28574 *
US-PATENT-APPL-SN-276076	c 72	N84-16959 *	US-PATENT-APPL-SN-292123	c 18	N90-20126 *	US-PATENT-APPL-SN-308918	c 27	N71-15634 *
US-PATENT-APPL-SN-276599	c 74	N81-19896 *	US-PATENT-APPL-SN-292124	c 62	N91-25693 *	US-PATENT-APPL-SN-309291	c 37	N88-23982 *
US-PATENT-APPL-SN-276748	c 33	N83-34189 *	US-PATENT-APPL-SN-292130	c 32	N91-25317 *	US-PATENT-APPL-SN-309292	c 37	N84-28085 *
US-PATENT-APPL-SN-276749	c 74	N84-23247 *	US-PATENT-APPL-SN-292131	c 18	N91-14374 *	US-PATENT-APPL-SN-309293	c 25	N83-13187 *
US-PATENT-APPL-SN-277404	c 05	N70-39922 *	US-PATENT-APPL-SN-292146	c 37	N90-23751 *	US-PATENT-APPL-SN-309354	c 11	N71-15926 *
US-PATENT-APPL-SN-277436	c 37	N74-25968 *	US-PATENT-APPL-SN-292340	c 52	N79-21750 *	US-PATENT-APPL-SN-310034	c 32	N74-30524 *
US-PATENT-APPL-SN-277833	c 03	N70-41580 *	US-PATENT-APPL-SN-292382	c 27	N74-17283 *	US-PATENT-APPL-SN-310193	c 33	N74-27682 *
US-PATENT-APPL-SN-277904	c 28	N74-27425 *	US-PATENT-APPL-SN-292477	c 15	N73-12495 *	US-PATENT-APPL-SN-310506	c 10	N71-16042 *
US-PATENT-APPL-SN-277961	c 33	N70-36617 *	US-PATENT-APPL-SN-292596	c 10	N71-29135 *	US-PATENT-APPL-SN-310507	c 07	N71-11298 *
US-PATENT-APPL-SN-278137	c 51	N91-21701 *	US-PATENT-APPL-SN-292681	c 33	N74-10194 *	US-PATENT-APPL-SN-310615	c 37	N74-27901 *
US-PATENT-APPL-SN-278790	c 15	N70-34664 *	US-PATENT-APPL-SN-292682	c 14	N73-32319 *	US-PATENT-APPL-SN-310616	c 35	N74-21017 *
US-PATENT-APPL-SN-279170	c 34	N92-16243 *	US-PATENT-APPL-SN-292685	c 32	N74-20864 *	US-PATENT-APPL-SN-310624	c 33	N74-17929 *
US-PATENT-APPL-SN-2792	c 14	N70-33386 *	US-PATENT-APPL-SN-292686	c 20	N74-31269 *	US-PATENT-APPL-SN-310714	c 33	N82-11360 *
US-PATENT-APPL-SN-279624	c 24	N89-23623 *	US-PATENT-APPL-SN-292698	c 09	N73-32109 *	US-PATENT-APPL-SN-310992	c 74	N91-26918 *
US-PATENT-APPL-SN-279625	c 31	N90-23586 *	US-PATENT-APPL-SN-293412	c 27	N83-34039 *	US-PATENT-APPL-SN-311024	c 60	N91-31810 *
US-PATENT-APPL-SN-279630	c 60	N90-25583 *	US-PATENT-APPL-SN-293414	c 37	N84-16560 *	US-PATENT-APPL-SN-311175	c 52	N74-22771 *
US-PATENT-APPL-SN-279646	c 08	N71-21042 *	US-PATENT-APPL-SN-293417	c 37	N82-26673 *	US-PATENT-APPL-SN-311234	c 35	N74-23040 *
US-PATENT-APPL-SN-279676	c 33	N89-29679 *	US-PATENT-APPL-SN-293418	c 26	N83-31795 *	US-PATENT-APPL-SN-311376	c 76	N92-21499 *
US-PATENT-APPL-SN-279677	c 31	N90-26168 *	US-PATENT-APPL-SN-293419	c 33	N82-24427 *	US-PATENT-APPL-SN-311387	c 23	N71-30027 *
US-PATENT-APPL-SN-280029	c 35	N74-15126 *	US-PATENT-APPL-SN-293725	c 89	N74-30886 *	US-PATENT-APPL-SN-311551	c 23	N91-14418 *
US-PATENT-APPL-SN-280031	c 26	N73-26752 *	US-PATENT-APPL-SN-293726	c 37	N74-21055 *	US-PATENT-APPL-SN-311552	c 33	N92-16196 *
US-PATENT-APPL-SN-280032	c 35	N74-15093 *	US-PATENT-APPL-SN-293727	c 33	N74-14956 *	US-PATENT-APPL-SN-312269	c 28	N71-14043 *
US-PATENT-APPL-SN-280151	c 27	N83-36220 *	US-PATENT-APPL-SN-293739	c 35	N74-28097 *	US-PATENT-APPL-SN-31242	c 28	N70-33374 *
US-PATENT-APPL-SN-280152	c 54	N86-22112 *	US-PATENT-APPL-SN-294727	c 73	N77-18891 *	US-PATENT-APPL-SN-312443	c 10	N71-21473 *
US-PATENT-APPL-SN-280153	c 51	N83-17045 *	US-PATENT-APPL-SN-294738	c 73	N78-28913 *	US-PATENT-APPL-SN-313132	c 28	N70-34175 *
US-PATENT-APPL-SN-280154	c 33	N83-10345 *	US-PATENT-APPL-SN-295855	c 23	N71-17802 *	US-PATENT-APPL-SN-313135	c 15	N70-35087 *
US-PATENT-APPL-SN-280155	c 24	N84-11214 *	US-PATENT-APPL-SN-296137	c 74	N84-28590 *	US-PATENT-APPL-SN-313136	c 09	N71-12540 *
US-PATENT-APPL-SN-280305	c 34	N74-23039 *	US-PATENT-APPL-SN-296622	c 44	N76-31666 *	US-PATENT-APPL-SN-313381	c 35	N74-15091 *
US-PATENT-APPL-SN-280362	c 14	N71-28935 *	US-PATENT-APPL-SN-296679	c 26	N71-18064 *	US-PATENT-APPL-SN-313839	c 37	N90-21390 *
US-PATENT-APPL-SN-280390	c 37	N74-15128 *	US-PATENT-APPL-SN-297127	c 33	N74-27705 *	US-PATENT-APPL-SN-314074	c 15	N71-16079 *
US-PATENT-APPL-SN-280580	c 12	N71-21089 *	US-PATENT-APPL-SN-297128	c 32	N74-26654 *	US-PATENT-APPL-SN-314570	c 10	N71-28960 *
US-PATENT-APPL-SN-280776	c 14	N70-40273 *	US-PATENT-APPL-SN-297436	c 33	N79-11314 *	US-PATENT-APPL-SN-314572	c 14	N71-15992 *
US-PATENT-APPL-SN-280777	c 08	N70-41961 *	US-PATENT-APPL-SN-297486	c 35	N83-24828 *	US-PATENT-APPL-SN-314656	c 51	N77-25769 *
US-PATENT-APPL-SN-281069	c 14	N70-35394 *	US-PATENT-APPL-SN-297488	c 37	N84-16561 *	US-PATENT-APPL-SN-314702	c 71	N84-16940 *
US-PATENT-APPL-SN-28175	c 21	N70-33279 *	US-PATENT-APPL-SN-297524	c 33	N84-14424 *	US-PATENT-APPL-SN-314928	c 32	N84-34651 *
US-PATENT-APPL-SN-281875	c 25	N74-18551 *	US-PATENT-APPL-SN-297524	c 33	N84-22886 *	US-PATENT-APPL-SN-314929	c 71	N83-32515 *
US-PATENT-APPL-SN-281876	c 52	N74-20726 *	US-PATENT-APPL-SN-298149	c 24	N92-16026 *	US-PATENT-APPL-SN-315048	c 34	N74-27730 *
US-PATENT-APPL-SN-281877	c 35	N74-15146 *	US-PATENT-APPL-SN-298150	c 25	N90-23517 *	US-PATENT-APPL-SN-315069	c 33	N74-20862 *
US-PATENT-APPL-SN-281908	c 25	N75-12086 *	US-PATENT-APPL-SN-298150	c 25	N91-21270 *	US-PATENT-APPL-SN-315070	c 60	N76-23850 *
US-PATENT-APPL-SN-282129	c 24	N83-25789 *	US-PATENT-APPL-SN-298156	c 37	N75-13261 *	US-PATENT-APPL-SN-315096	c 12	N70-40124 *
US-PATENT-APPL-SN-282191	c 35	N83-29651 *	US-PATENT-APPL-SN-298156	c 26	N75-19408 *	US-PATENT-APPL-SN-3151	c 05	N72-27102 *
US-PATENT-APPL-SN-282192	c 74	N83-21949 *	US-PATENT-APPL-SN-298157	c 33	N74-21850 *	US-PATENT-APPL-SN-315278	c 51	N83-28849 *
US-PATENT-APPL-SN-282298	c 33	N85-29144 *	US-PATENT-APPL-SN-298799	c 14	N71-15992 *	US-PATENT-APPL-SN-315583	c 35	N84-33769 *
US-PATENT-APPL-SN-28235	c 10	N72-17171 *	US-PATENT-APPL-SN-298800	c 14	N70-34705 *	US-PATENT-APPL-SN-315584	c 23	N84-16255 *
US-PATENT-APPL-SN-282817	c 15	N70-40156 *	US-PATENT-APPL-SN-299042	c 15	N71-15918 *	US-PATENT-APPL-SN-315587	c 25	N83-31743 *
US-PATENT-APPL-SN-282818	c 14	N71-14996 *	US-PATENT-APPL-SN-29917	c 15	N73-13465 *	US-PATENT-APPL-SN-315588	c 05	N84-22551 *
US-PATENT-APPL-SN-283092	c 35	N91-21496 *	US-PATENT-APPL-SN-29917	c 26	N74-10521 *	US-PATENT-APPL-SN-316477	c 18	N71-10772 *
US-PATENT-APPL-SN-283106	c 62	N91-14769 *	US-PATENT-APPL-SN-29917	c 37	N74-13179 *	US-PATENT-APPL-SN-316618	c 07	N74-15453 *
US-PATENT-APPL-SN-283431	c 36	N91-17360 *	US-PATENT-APPL-SN-29979	c 09	N75-15662 *	US-PATENT-APPL-SN-31702	c 16	N73-16536 *
US-PATENT-APPL-SN-283502	c 37	N74-21060 *	US-PATENT-APPL-SN-300113	c 33	N70-33344 *	US-PATENT-APPL-SN-31703	c 09	N72-21244 *
US-PATENT-APPL-SN-283673	c 33	N91-14551 *	US-PATENT-APPL-SN-300712	c 15	N70-35407 *	US-PATENT-APPL-SN-317310	c 36	N77-25502 *
US-PATENT-APPL-SN-284245	c 33	N74-17928 *	US-PATENT-APPL-SN-300957	c 33	N71-29053 *	US-PATENT-APPL-SN-317389	c 18	N70-41583 *
US-PATENT-APPL-SN-284265	c 14	N70-34799 *	US-PATENT-APPL-SN-301039	c 37	N74-27903 *	US-PATENT-APPL-SN-317391	c 15	N71-15968 *
US-PATENT-APPL-SN-284266	c 15	N71-16077 *	US-PATENT-APPL-SN-301075	c 25	N83-29324 *	US-PATENT-APPL-SN-317567	c 36	N75-15029 *
US-PATENT-APPL-SN-284286	c 44	N84-28203 *	US-PATENT-APPL-SN-301077	c 33	N84-14421 *	US-PATENT-APPL-SN-317658	c 36	N84-16542 *
US-PATENT-APPL-SN-284287	c 32	N84-27951 *	US-PATENT-APPL-SN-301078	c 08	N85-19985 *	US-PATENT-APPL-SN-317776	c 51	N92-34229 *
US-PATENT-APPL-SN-284288	c 33	N83-36356 *	US-PATENT-APPL-SN-301417	c 71	N74-21014 *	US-PATENT-APPL-SN-317776	c 51	N92-34231 *
US-PATENT-APPL-SN-284289	c 34	N84-22903 *	US-PATENT-APPL-SN-301418	c 52	N76-29894 *	US-PATENT-APPL-SN-317931	c 51	N92-34229 *
US-PATENT-APPL-SN-284290	c 33	N83-34191 *	US-PATENT-APPL-SN-301419	c 34	N76-17317 *	US-PATENT-APPL-SN-317977	c 25	N83-36118 *
US-PATENT-APPL-SN-284314	c 33	N84-16454 *	US-PATENT-APPL-SN-301683	c 07	N71-15907 *	US-PATENT-APPL-SN-318151	c 75	N74-30156 *
US-PATENT-APPL-SN-285705	c 37	N74-21056 *	US-PATENT-APPL-SN-301925	c 27	N92-21711 *	US-PATENT-APPL-SN-318152	c 52	N74-20728 *
US-PATENT-APPL-SN-286620	c 15	N71-30028 *	US-PATENT-APPL-SN-302681	c 37	N75-12326 *	US-PATENT-APPL-SN-318217	c 35	N91-13694 *
US-PATENT-APPL-SN-286824	c 44	N79-19447 *	US-PATENT-APPL-SN-302749	c 14	N70-40201 *	US-PATENT-APPL-SN-318357	c 35	N74-21019 *
US-PATENT-APPL-SN-287149	c 35	N74-32878 *	US-PATENT-APPL-SN-302913	c 76	N79-16678 *	US-PATENT-APPL-SN-318358	c 27	N74-27037 *
US-PATENT-APPL-SN-287150	c 37	N74-21065 *	US-PATENT-APPL-SN-303670	c 37	N82-11469 *	US-PATENT-APPL-SN-318443	c 03	N70-34667 *
US-PATENT-APPL-SN-288267	c 27	N83-31854 *	US-PATENT-APPL-SN-303671	c 31	N83-31896 *	US-PATENT-APPL-SN-318848	c 35	N77-14408 *
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US-PATENT-APPL-SN-288267	c 27	N85-21347 *	US-PATENT-APPL-SN-304147	c 27	N90-23541 *	US-PATENT-APPL-SN-318981	c 33	N92-16197 *
US-PATENT-APPL-SN-288847	c 33	N74-27862 *	US-PATENT-APPL-SN-304149	c 31	N89-29577 *	US-PATENT-APPL-SN-319150	c 33	N75-19519 *
US-PATENT-APPL-SN-288856	c 33	N74-20859 *	US-PATENT-APPL-SN-304154	c 37	N91-14607 *	US-PATENT-APPL-SN-319410	c 37	N74-20863 *
US-PATENT-APPL-SN-288857	c 14	N73-33361 *	US-PATENT-APPL-SN-304155	c 74	N91-14835 *	US-PATENT-APPL-SN-319892	c 07	N71-10609 *
US-PATENT-APPL-SN-289017	c 37	N74-27905 *	US-PATENT-APPL-SN-304430	c 52	N74-27864 *	US-PATENT-APPL-SN-319893	c 14	N70-41647 *
US-PATENT-APPL-SN-289018	c 08	N74-30421 *	US-PATENT-APPL-SN-304698	c 32	N70-41579 *	US-PATENT-APPL-SN-319894	c 03	N71-11053 *
US-PATENT-APPL-SN-289033	c 15	N73-32358 *	US-PATENT-APPL-SN-304705	c 32	N74-20810 *	US-PATENT-APPL-SN-319905	c 14	N71-10781 *
US-PATENT-APPL-SN-289033	c 37	N74-21055 *	US-PATENT-APPL-SN-304749	c 11	N71-16028 *	US-PATENT-APPL-SN-320233	c 33	N71-15625 *
US-PATENT-APPL-SN-289048	c 37	N74-21057 *	US-PATENT-APPL-SN-30498	c 37	N74-21063 *	US-PATENT-APPL-SN-320595	c 26	N70-40015 *
US-PATENT-APPL-SN-289049	c 19	N74-15089 *	US-PATENT-APPL-SN-305012	c 35	N74-15094 *	US-PATENT-APPL-SN-320621	c 27	N83-34040 *
US-PATENT-APPL-SN-289050	c 20	N74-32919 *	US-PATENT-APPL-SN-305013	c 14	N73-13435 *	US-PATENT-APPL-SN-321179	c 27	N74-21156 *
US-PATENT-APPL-SN-290021	c 37	N74-23064 *	US-PATENT-APPL-SN-305020	c 21	N70-34295 *	US-PATENT-APPL-SN-321180	c 05	N76-29217 *
US-PATENT-APPL-SN-290022	c 09	N73-12214 *	US-PATENT-APPL-SN-305638	c 34	N74-23066 *	US-PATENT-APPL-SN-321556	c 14	N70-41807 *
US-PATENT-APPL-SN-290030	c 33	N74-12887 *	US-PATENT-APPL-SN-305639	c 37	N74-27904 *	US-PATENT-APPL-SN-322312	c 25	N84-22709 *
US-PATENT-APPL-SN-290043	c 18	N75-27040 *	US-PATENT-APPL-SN-305675	c 33	N91-31529 *	US-PATENT-APPL-SN-322314	c 35	N84-12443 *
US-PATENT-APPL-SN-290								

US-PATENT-APPL-SN-322545	c 14	N71-10774 *	US-PATENT-APPL-SN-341621	c 54	N74-20725 *	US-PATENT-APPL-SN-357759	c 62	N92-15620 *	#
US-PATENT-APPL-SN-322565	c 37	N75-27376 *	US-PATENT-APPL-SN-341662	c 08	N74-10942 *	US-PATENT-APPL-SN-357928	c 60	N92-29132 *	
US-PATENT-APPL-SN-322997	c 37	N75-15992 *	US-PATENT-APPL-SN-3417	c 15	N72-22490 *	US-PATENT-APPL-SN-357938	c 45	N91-14662 *	
US-PATENT-APPL-SN-322997	c 24	N79-25143 *	US-PATENT-APPL-SN-3418	c 15	N72-20446 *	US-PATENT-APPL-SN-358027	c 35	N91-14587 *	
US-PATENT-APPL-SN-322998	c 35	N74-32877 *	US-PATENT-APPL-SN-3418	c 15	N73-19457 *	US-PATENT-APPL-SN-358028	c 37	N89-28842 *	#
US-PATENT-APPL-SN-323182	c 03	N70-41864 *	US-PATENT-APPL-SN-342572	c 02	N71-16087 *	US-PATENT-APPL-SN-358029	c 37	N91-32508 *	
US-PATENT-APPL-SN-323236	c 24	N90-21822 *	US-PATENT-APPL-SN-342574	c 03	N71-20904 *	US-PATENT-APPL-SN-358088	c 35	N84-33767 *	
US-PATENT-APPL-SN-323748	c 61	N90-16411 *	US-PATENT-APPL-SN-342828	c 74	N85-29749 *	US-PATENT-APPL-SN-358089	c 71	N84-23233 *	
US-PATENT-APPL-SN-324029	c 32	N74-27612 *	US-PATENT-APPL-SN-342857	c 72	N84-28575 *	US-PATENT-APPL-SN-358127	c 05	N71-12335 *	
US-PATENT-APPL-SN-32496	c 15	N70-37925 *	US-PATENT-APPL-SN-342871	c 27	N84-33589 *	US-PATENT-APPL-SN-358213	c 52	N92-11621 *	
US-PATENT-APPL-SN-325082	c 35	N83-29652 *	US-PATENT-APPL-SN-343308	c 19	N74-29410 *	US-PATENT-APPL-SN-358398	c 36	N84-22944 *	
US-PATENT-APPL-SN-325083	c 33	N84-16456 *	US-PATENT-APPL-SN-343425	c 11	N70-35383 *	US-PATENT-APPL-SN-359039	c 32	N74-30523 *	
US-PATENT-APPL-SN-325784	c 24	N76-14204 *	US-PATENT-APPL-SN-343426	c 07	N71-20814 *	US-PATENT-APPL-SN-359156	c 14	N75-24794 *	
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US-PATENT-APPL-SN-325886	c 33	N83-34190 *	US-PATENT-APPL-SN-343652	c 33	N91-14537 *	US-PATENT-APPL-SN-359382	c 32	N85-34327 *	
US-PATENT-APPL-SN-325931	c 37	N82-26674 *	US-PATENT-APPL-SN-343656	c 76	N91-14872 *	US-PATENT-APPL-SN-359388	c 44	N83-32177 *	
US-PATENT-APPL-SN-325932	c 33	N84-16455 *	US-PATENT-APPL-SN-343760	c 07	N71-28979 *	US-PATENT-APPL-SN-359459	c 36	N89-28817 *	#
US-PATENT-APPL-SN-325933	c 76	N83-20789 *	US-PATENT-APPL-SN-344410	c 07	N74-33218 *	US-PATENT-APPL-SN-359460	c 36	N92-31788 *	
US-PATENT-APPL-SN-326198	c 35	N75-12272 *	US-PATENT-APPL-SN-344793	c 03	N71-11058 *	US-PATENT-APPL-SN-359532	c 15	N71-28959 *	
US-PATENT-APPL-SN-326298	c 14	N71-22765 *	US-PATENT-APPL-SN-344872	c 18	N91-27201 *	US-PATENT-APPL-SN-359626	c 35	N84-28018 *	
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US-PATENT-APPL-SN-326326	c 35	N74-32879 *	US-PATENT-APPL-SN-345372	c 33	N74-22814 *	US-PATENT-APPL-SN-359627	c 35	N85-29214 *	
US-PATENT-APPL-SN-326327	c 44	N74-27519 *	US-PATENT-APPL-SN-346356	c 14	N70-41676 *	US-PATENT-APPL-SN-359801	c 74	N91-27957 *	
US-PATENT-APPL-SN-326364	c 51	N75-13502 *	US-PATENT-APPL-SN-346361	c 37	N74-21064 *	US-PATENT-APPL-SN-359957	c 07	N74-32418 *	
US-PATENT-APPL-SN-32664	c 11	N72-25287 *	US-PATENT-APPL-SN-346372	c 35	N75-12270 *	US-PATENT-APPL-SN-359958	c 37	N74-26976 *	
US-PATENT-APPL-SN-32665	c 14	N72-22444 *	US-PATENT-APPL-SN-346483	c 37	N74-32921 *	US-PATENT-APPL-SN-360180	c 17	N71-16026 *	
US-PATENT-APPL-SN-326756	c 71	N91-14808 *	US-PATENT-APPL-SN-346483	c 37	N76-15461 *	US-PATENT-APPL-SN-360182	c 31	N70-36654 *	
US-PATENT-APPL-SN-326757	c 24	N90-23493 *	US-PATENT-APPL-SN-347101	c 09	N70-41675 *	US-PATENT-APPL-SN-360878	c 03	N71-11051 *	
US-PATENT-APPL-SN-326757	c 24	N91-17145 *	US-PATENT-APPL-SN-347558	c 27	N91-31307 *	US-PATENT-APPL-SN-361200	c 18	N89-28556 *	#
US-PATENT-APPL-SN-326766	c 35	N90-22024 *	US-PATENT-APPL-SN-347591	c 25	N91-31258 *	US-PATENT-APPL-SN-361215	c 27	N84-14323 *	
US-PATENT-APPL-SN-326820	c 35	N91-17350 *	US-PATENT-APPL-SN-347626	c 15	N70-40204 *	US-PATENT-APPL-SN-361216	c 35	N84-28016 *	
US-PATENT-APPL-SN-326863	c 37	N91-17387 *	US-PATENT-APPL-SN-347952	c 37	N75-13265 *	US-PATENT-APPL-SN-361217	c 71	N85-22104 *	
US-PATENT-APPL-SN-327163	c 03	N71-20895 *	US-PATENT-APPL-SN-347953	c 05	N75-24716 *	US-PATENT-APPL-SN-361471	c 27	N92-34160 *	
US-PATENT-APPL-SN-327565	c 02	N70-36825 *	US-PATENT-APPL-SN-347960	c 03	N70-39930 *	US-PATENT-APPL-SN-361479	c 14	N91-21175 *	
US-PATENT-APPL-SN-327921	c 54	N75-13531 *	US-PATENT-APPL-SN-348223	c 34	N91-31596 *	US-PATENT-APPL-SN-361531	c 35	N89-28795 *	#
US-PATENT-APPL-SN-327969	c 35	N75-13213 *	US-PATENT-APPL-SN-348422	c 27	N76-15311 *	US-PATENT-APPL-SN-361666	c 33	N75-30428 *	
US-PATENT-APPL-SN-328140	c 18	N71-21651 *	US-PATENT-APPL-SN-348600	c 28	N71-29154 *	US-PATENT-APPL-SN-361711	c 24	N82-26387 *	#
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US-PATENT-APPL-SN-328392	c 23	N91-14419 *	US-PATENT-APPL-SN-349778	c 09	N70-40234 *	US-PATENT-APPL-SN-361906	c 33	N74-20861 *	
US-PATENT-APPL-SN-328760	c 31	N83-35177 *	US-PATENT-APPL-SN-349781	c 31	N71-15647 *	US-PATENT-APPL-SN-361907	c 35	N74-27865 *	
US-PATENT-APPL-SN-328792	c 35	N75-12273 *	US-PATENT-APPL-SN-349782	c 09	N71-16086 *	US-PATENT-APPL-SN-362145	c 32	N75-26194 *	
US-PATENT-APPL-SN-329237	c 33	N74-34638 *	US-PATENT-APPL-SN-34989	c 36	N74-13205 *	US-PATENT-APPL-SN-362146	c 33	N75-18479 *	
US-PATENT-APPL-SN-329243	c 28	N74-33209 *	US-PATENT-APPL-SN-350249	c 36	N75-15028 *	US-PATENT-APPL-SN-362261	c 14	N73-32325 *	
US-PATENT-APPL-SN-329331	c 15	N71-15906 *	US-PATENT-APPL-SN-350250	c 27	N75-27160 *	US-PATENT-APPL-SN-362278	c 37	N78-17385 *	
US-PATENT-APPL-SN-329595	c 05	N70-41329 *	US-PATENT-APPL-SN-350300	c 31	N74-32920 *	US-PATENT-APPL-SN-363130	c 25	N81-19244 *	
US-PATENT-APPL-SN-329598	c 33	N74-22885 *	US-PATENT-APPL-SN-350471	c 35	N85-29213 *	US-PATENT-APPL-SN-363348	c 05	N70-41581 *	
US-PATENT-APPL-SN-330209	c 15	N70-41646 *	US-PATENT-APPL-SN-350472	c 33	N84-14424 *	US-PATENT-APPL-SN-363653	c 07	N70-41331 *	
US-PATENT-APPL-SN-330210	c 14	N71-21090 *	US-PATENT-APPL-SN-350473	c 07	N84-22559 *	US-PATENT-APPL-SN-363654	c 07	N70-41372 *	
US-PATENT-APPL-SN-331119	c 37	N82-29151 *	US-PATENT-APPL-SN-350474	c 35	N84-22928 *	US-PATENT-APPL-SN-363691	c 20	N76-14190 *	
US-PATENT-APPL-SN-331323	c 07	N71-16088 *	US-PATENT-APPL-SN-350475	c 35	N84-28017 *	US-PATENT-APPL-SN-363807	c 35	N91-27522 *	
US-PATENT-APPL-SN-331324	c 05	N70-35152 *	US-PATENT-APPL-SN-350476	c 26	N84-22734 *	US-PATENT-APPL-SN-363815	c 33	N91-21434 *	
US-PATENT-APPL-SN-331551	c 60	N92-16563 *	US-PATENT-APPL-SN-350477	c 35	N84-33765 *	US-PATENT-APPL-SN-364041	c 76	N85-30923 *	
US-PATENT-APPL-SN-33159	c 10	N72-11256 *	US-PATENT-APPL-SN-350813	c 32	N92-21712 *	US-PATENT-APPL-SN-364072	c 70	N84-28565 *	
US-PATENT-APPL-SN-331759	c 07	N76-18117 *	US-PATENT-APPL-SN-351259	c 15	N71-10672 *	US-PATENT-APPL-SN-364092	c 76	N83-35888 *	
US-PATENT-APPL-SN-331760	c 35	N74-27860 *	US-PATENT-APPL-SN-351929	c 33	N75-14957 *	US-PATENT-APPL-SN-364093	c 37	N83-34323 *	
US-PATENT-APPL-SN-332123	c 27	N80-32514 *	US-PATENT-APPL-SN-351950	c 33	N75-27249 *	US-PATENT-APPL-SN-364094	c 37	N84-28083 *	
US-PATENT-APPL-SN-332313	c 21	N71-10678 *	US-PATENT-APPL-SN-352381	c 20	N75-18310 *	US-PATENT-APPL-SN-364097	c 71	N82-27086 *	#
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US-PATENT-APPL-SN-332677	c 33	N90-21951 *	US-PATENT-APPL-SN-352382	c 60	N75-13539 *	US-PATENT-APPL-SN-364743	c 37	N91-14608 *	
US-PATENT-APPL-SN-333535	c 74	N83-36898 *	US-PATENT-APPL-SN-352383	c 35	N75-16783 *	US-PATENT-APPL-SN-364774	c 37	N91-14616 *	
US-PATENT-APPL-SN-333537	c 44	N83-32176 *	US-PATENT-APPL-SN-352400	c 26	N71-10607 *	US-PATENT-APPL-SN-364867	c 09	N71-10673 *	
US-PATENT-APPL-SN-333766	c 31	N71-15663 *	US-PATENT-APPL-SN-352821	c 44	N84-28205 *	US-PATENT-APPL-SN-365244	c 37	N78-17386 *	
US-PATENT-APPL-SN-333770	c 21	N71-15583 *	US-PATENT-APPL-SN-352827	c 35	N84-28015 *	US-PATENT-APPL-SN-36531	c 07	N72-25174 *	
US-PATENT-APPL-SN-333912	c 32	N74-19790 *	US-PATENT-APPL-SN-352827	c 35	N85-21598 *	US-PATENT-APPL-SN-36534	c 21	N73-14692 *	
US-PATENT-APPL-SN-33398	c 14	N70-35587 *	US-PATENT-APPL-SN-352831	c 35	N84-16523 *	US-PATENT-APPL-SN-3654	c 35	N77-27367 *	
US-PATENT-APPL-SN-334349	c 35	N75-19611 *	US-PATENT-APPL-SN-353162	c 33	N75-26243 *	US-PATENT-APPL-SN-365644	c 35	N74-26946 *	
US-PATENT-APPL-SN-334672	c 14	N70-41330 *	US-PATENT-APPL-SN-353411	c 37	N89-28846 *	US-PATENT-APPL-SN-365950	c 27	N83-18908 *	
US-PATENT-APPL-SN-334678	c 11	N71-10777 *	US-PATENT-APPL-SN-353632	c 15	N71-13789 *	US-PATENT-APPL-SN-366025	c 27	N84-22744 *	
US-PATENT-APPL-SN-335036	c 45	N84-12654 *	US-PATENT-APPL-SN-353634	c 15	N70-41829 *	US-PATENT-APPL-SN-366103	c 76	N84-35112 *	#
US-PATENT-APPL-SN-335201	c 33	N74-17920 *	US-PATENT-APPL-SN-353637	c 02	N70-34160 *	US-PATENT-APPL-SN-366205	c 35	N91-14590 *	
US-PATENT-APPL-SN-33535	c 06	N72-17093 *	US-PATENT-APPL-SN-353644	c 07	N71-23098 *	US-PATENT-APPL-SN-366226	c 10	N71-16057 *	
US-PATENT-APPL-SN-335441	c 14	N71-23268 *	US-PATENT-APPL-SN-353645	c 15	N71-15922 *	US-PATENT-APPL-SN-366957	c 27	N90-10261 *	#
US-PATENT-APPL-SN-336103	c 16	N71-15550 *	US-PATENT-APPL-SN-354060	c 74	N76-19935 *	US-PATENT-APPL-SN-367132	c 32	N85-21427 *	
US-PATENT-APPL-SN-336319	c 44	N74-33379 *	US-PATENT-APPL-SN-354126	c 37	N82-22496 *	US-PATENT-APPL-SN-367134	c 44	N83-34449 *	
US-PATENT-APPL-SN-336320	c 15	N71-15966 *	US-PATENT-APPL-SN-354182	c 10	N71-20841 *	US-PATENT-APPL-SN-367136	c 35	N85-21596 *	
US-PATENT-APPL-SN-336607	c 10	N71-15910 *	US-PATENT-APPL-SN-354406	c 52	N76-14757 *	US-PATENT-APPL-SN-367187	c 04	N84-14132 *	
US-PATENT-APPL-SN-336608	c 32	N71-17645 *	US-PATENT-APPL-SN-354407	c 33	N74-22865 *	US-PATENT-APPL-SN-367268	c 05	N75-25914 *	
US-PATENT-APPL-SN-337487	c 33	N74-26977 *	US-PATENT-APPL-SN-354408	c 35	N75-19614 *	US-PATENT-APPL-SN-367293	c 36	N75-19655 *	
US-PATENT-APPL-SN-337767	c 31	N90-23587 *	US-PATENT-APPL-SN-354611	c 25	N74-26947 *	US-PATENT-APPL-SN-367294	c 76	N75-12810 *	
US-PATENT-APPL-SN-337768	c 74	N92-29158 *	US-PATENT-APPL-SN-354612	c 35	N75-30504 *	US-PATENT-APPL-SN-367606	c 75	N75-13625 *	
US-PATENT-APPL-SN-337816	c 35	N75-15931 *	US-PATENT-APPL-SN-355126	c 17	N71-15644 *	US-PATENT-APPL-SN-367606	c 75	N76-17951 *	
US-PATENT-APPL-SN-338379	c 76	N91-21911 *	US-PATENT-APPL-SN-355129	c 14	N70-41957 *	US-PATENT-APPL-SN-368123	c 09	N71-10618 *	
US-PATENT-APPL-SN-338386	c 15	N84-16231 *	US-PATENT-APPL-SN-355130	c 15	N70-40354 *	US-PATENT-APPL-SN-368187	c 54	N84-11758 *	
US-PATENT-APPL-SN-338484	c 32	N74-20811 *	US-PATENT-APPL-SN-356488	c 08	N71-19544 *	US-PATENT-APPL-SN-368188	c 33	N84-33663 *	
US-PATENT-APPL-SN-339040	c 31	N70-41373 *	US-PATENT-APPL-SN-356554	c 24	N75-33181 *	US-PATENT-APPL-SN-368189	c 18	N84-22605 *	
US-PATENT-APPL-SN-339806	c 07	N74-27490 *	US-PATENT-APPL-SN-356555	c 37	N75-19685 *	US-PATENT-APPL-SN-36819	c 23	N72-22673 *	
US-PATENT-APPL-SN-339821	c 17	N70-33288 *	US-PATENT-APPL-SN-356664	c 31	N75-12161 *	US-PATENT-APPL-SN-36926	c 28	N72-23810 *	
US-PATENT-APPL-SN-339825	c 28	N71-15660 *	US-PATENT-APPL-SN-356692	c 15	N70-41371 *	US-PATENT-APPL-SN-369334	c 21	N71-22880 *	
US-PATENT-APPL-SN-340113	c 16	N70-41578 *	US-PATENT-APPL-SN-357126	c 35	N74-34857 *	US-PATENT-APPL-SN-369336	c 09	N71-10659 *	
US-PATENT-APPL-SN-340791	c 35	N74-26945 *	US-PATENT-APPL-SN-357312	c 27	N76-16229 *	US-PATENT-APPL-SN-369337	c 15	N70-41811 *	
US-PATENT-APPL-SN-340862	c 33	N77-26387 *							

US-PATENT-APPL-SN-370135	c 11	N70-41677 *	US-PATENT-APPL-SN-386172	c 24	N91-14430 *	US-PATENT-APPL-SN-396443	c 15	N71-15986 *
US-PATENT-APPL-SN-370255	c 33	N75-18477 *	US-PATENT-APPL-SN-386174	c 75	N90-10717 * #	US-PATENT-APPL-SN-396444	c 10	N71-20782 *
US-PATENT-APPL-SN-370271	c 32	N75-24981 *	US-PATENT-APPL-SN-386175	c 35	N92-31790 *	US-PATENT-APPL-SN-396726	c 35	N91-15511 *
US-PATENT-APPL-SN-37050	c 33	N74-26732 *	US-PATENT-APPL-SN-386467	c 14	N90-40233 *	US-PATENT-APPL-SN-396726	c 35	N91-21495 *
US-PATENT-APPL-SN-370582	c 18	N76-14186 *	US-PATENT-APPL-SN-386789	c 35	N75-12271 *	US-PATENT-APPL-SN-397281	c 76	N83-34796 *
US-PATENT-APPL-SN-370872	c 37	N74-32918 *	US-PATENT-APPL-SN-386790	c 09	N75-12968 *	US-PATENT-APPL-SN-397476	c 34	N75-12222 *
US-PATENT-APPL-SN-370989	c 23	N71-29049 *	US-PATENT-APPL-SN-386793	c 35	N75-25124 *	US-PATENT-APPL-SN-397477	c 33	N75-19517 *
US-PATENT-APPL-SN-370999	c 74	N78-15879 *	US-PATENT-APPL-SN-386800	c 15	N71-21404 *	US-PATENT-APPL-SN-397478	c 52	N75-33640 *
US-PATENT-APPL-SN-371322	c 44	N76-14600 *	US-PATENT-APPL-SN-387094	c 37	N77-19457 *	US-PATENT-APPL-SN-39755	c 08	N72-21198 *
US-PATENT-APPL-SN-371351	c 76	N84-35113 *	US-PATENT-APPL-SN-387095	c 37	N75-33395 *	US-PATENT-APPL-SN-397665	c 10	N70-41991 *
US-PATENT-APPL-SN-371352	c 52	N84-11744 *	US-PATENT-APPL-SN-387266	c 35	N77-27328 *	US-PATENT-APPL-SN-398131	c 05	N70-41297 *
US-PATENT-APPL-SN-371856	c 15	N70-42033 *	US-PATENT-APPL-SN-387332	c 15	N70-33226 *	US-PATENT-APPL-SN-398132	c 15	N70-41808 *
US-PATENT-APPL-SN-371857	c 07	N70-41680 *	US-PATENT-APPL-SN-387342	c 37	N76-18457 *	US-PATENT-APPL-SN-398885	c 27	N76-15310 *
US-PATENT-APPL-SN-372148	c 35	N74-26949 *	US-PATENT-APPL-SN-387646	c 37	N85-30336 *	US-PATENT-APPL-SN-398886	c 07	N75-24736 *
US-PATENT-APPL-SN-372149	c 37	N75-15050 *	US-PATENT-APPL-SN-387647	c 33	N85-34333 *	US-PATENT-APPL-SN-398901	c 37	N75-25186 *
US-PATENT-APPL-SN-372279	c 35	N84-28019 *	US-PATENT-APPL-SN-387648	c 37	N85-21650 *	US-PATENT-APPL-SN-399074	c 33	N88-14271 *
US-PATENT-APPL-SN-372438	c 30	N71-17788 *	US-PATENT-APPL-SN-387649	c 09	N85-19990 *	US-PATENT-APPL-SN-399419	c 21	N71-23289 *
US-PATENT-APPL-SN-372648	c 27	N71-16348 *	US-PATENT-APPL-SN-387728	c 37	N84-28084 *	US-PATENT-APPL-SN-400467	c 33	N75-30431 *
US-PATENT-APPL-SN-372727	c 31	N70-36845 *	US-PATENT-APPL-SN-387928	c 76	N90-17456 * #	US-PATENT-APPL-SN-400613	c 15	N71-21528 *
US-PATENT-APPL-SN-372730	c 28	N71-28850 *	US-PATENT-APPL-SN-387928	c 76	N92-22040 *	US-PATENT-APPL-SN-400617	c 31	N71-17629 *
US-PATENT-APPL-SN-373587	c 33	N74-32711 *	US-PATENT-APPL-SN-388023	c 10	N70-41964 *	US-PATENT-APPL-SN-400857	c 31	N79-21225 *
US-PATENT-APPL-SN-373588	c 33	N75-19515 *	US-PATENT-APPL-SN-388024	c 32	N71-17609 *	US-PATENT-APPL-SN-401224	c 38	N78-17396 *
US-PATENT-APPL-SN-373591	c 31	N71-15692 *	US-PATENT-APPL-SN-38814	c 15	N72-11385 *	US-PATENT-APPL-SN-401225	c 38	N78-17395 *
US-PATENT-APPL-SN-373730	c 35	N84-34705 *	US-PATENT-APPL-SN-38816	c 70	N74-13436 *	US-PATENT-APPL-SN-401282	c 18	N85-29991 *
US-PATENT-APPL-SN-373771	c 35	N84-22934 *	US-PATENT-APPL-SN-38816	c 74	N78-15879 *	US-PATENT-APPL-SN-401288	c 37	N84-28081 *
US-PATENT-APPL-SN-373839	c 33	N84-22887 *	US-PATENT-APPL-SN-388264	c 37	N91-14614 *	US-PATENT-APPL-SN-401466	c 09	N75-24758 *
US-PATENT-APPL-SN-374421	c 27	N76-24405 *	US-PATENT-APPL-SN-388966	c 31	N70-41855 *	US-PATENT-APPL-SN-401919	c 24	N76-24363 *
US-PATENT-APPL-SN-374422	c 32	N75-24982 *	US-PATENT-APPL-SN-388967	c 10	N71-23271 *	US-PATENT-APPL-SN-401920	c 37	N75-25185 *
US-PATENT-APPL-SN-374423	c 36	N75-31427 *	US-PATENT-APPL-SN-388916	c 18	N71-23271 *	US-PATENT-APPL-SN-401921	c 24	N76-14203 *
US-PATENT-APPL-SN-374424	c 74	N75-12732 *	US-PATENT-APPL-SN-388929	c 33	N75-25040 *	US-PATENT-APPL-SN-402205	c 33	N85-30187 *
US-PATENT-APPL-SN-374441	c 35	N75-19616 *	US-PATENT-APPL-SN-389049	c 37	N76-16446 * #	US-PATENT-APPL-SN-402365	c 31	N71-17730 *
US-PATENT-APPL-SN-374583	c 33	N74-29556 *	US-PATENT-APPL-SN-390049	c 44	N76-29700 *	US-PATENT-APPL-SN-402865	c 33	N74-32660 *
US-PATENT-APPL-SN-374810	c 27	N80-32514 *	US-PATENT-APPL-SN-390251	c 21	N70-41856 *	US-PATENT-APPL-SN-402867	c 35	N75-33367 *
US-PATENT-APPL-SN-375401	c 17	N71-16025 *	US-PATENT-APPL-SN-390466	c 24	N75-13032 *	US-PATENT-APPL-SN-402868	c 35	N75-19612 *
US-PATENT-APPL-SN-375405	c 31	N71-15675 *	US-PATENT-APPL-SN-390468	c 36	N75-19652 *	US-PATENT-APPL-SN-402978	c 10	N71-23084 *
US-PATENT-APPL-SN-375620	c 43	N85-21723 *	US-PATENT-APPL-SN-391343	c 05	N69-21473 * #	US-PATENT-APPL-SN-403154	c 37	N77-22480 *
US-PATENT-APPL-SN-375674	c 28	N70-41582 *	US-PATENT-APPL-SN-391692	c 23	N91-14419 *	US-PATENT-APPL-SN-403371	c 27	N82-33523 * #
US-PATENT-APPL-SN-375680	c 10	N71-28739 *	US-PATENT-APPL-SN-39185	c 16	N72-25485 *	US-PATENT-APPL-SN-403378	c 26	N84-33555 *
US-PATENT-APPL-SN-375682	c 31	N70-41588 *	US-PATENT-APPL-SN-391896	c 43	N91-32546 *	US-PATENT-APPL-SN-403694	c 54	N75-12616 *
US-PATENT-APPL-SN-375684	c 44	N85-21769 *	US-PATENT-APPL-SN-391911	c 54	N91-14724 *	US-PATENT-APPL-SN-403695	c 35	N77-20399 *
US-PATENT-APPL-SN-375784	c 24	N85-21266 *	US-PATENT-APPL-SN-392092	c 51	N84-28361 *	US-PATENT-APPL-SN-403847	c 31	N83-35176 *
US-PATENT-APPL-SN-375784	c 24	N85-35233 *	US-PATENT-APPL-SN-392093	c 33	N88-23941 *	US-PATENT-APPL-SN-403848	c 33	N85-21493 *
US-PATENT-APPL-SN-376306	c 25	N84-12262 *	US-PATENT-APPL-SN-392094	c 37	N88-23941 *	US-PATENT-APPL-SN-403849	c 35	N87-21304 *
US-PATENT-APPL-SN-376487	c 25	N89-28603 * #	US-PATENT-APPL-SN-392096	c 02	N84-11136 *	US-PATENT-APPL-SN-403959	c 14	N70-41994 *
US-PATENT-APPL-SN-376487	c 25	N92-28728 *	US-PATENT-APPL-SN-392103	c 44	N84-28204 *	US-PATENT-APPL-SN-403960	c 14	N70-41366 *
US-PATENT-APPL-SN-376488	c 75	N91-25875 *	US-PATENT-APPL-SN-392104	c 37	N85-20338 *	US-PATENT-APPL-SN-404212	c 14	N73-32324 *
US-PATENT-APPL-SN-376738	c 35	N92-21723 *	US-PATENT-APPL-SN-392165	c 71	N91-27913 *	US-PATENT-APPL-SN-404288	c 33	N91-14536 *
US-PATENT-APPL-SN-377146	c 14	N71-23041 *	US-PATENT-APPL-SN-392166	c 24	N92-18561 *	US-PATENT-APPL-SN-404289	c 26	N91-14462 *
US-PATENT-APPL-SN-377777	c 32	N70-42003 *	US-PATENT-APPL-SN-392171	c 54	N91-26747 *	US-PATENT-APPL-SN-404290	c 34	N91-14563 *
US-PATENT-APPL-SN-377780	c 11	N71-10604 *	US-PATENT-APPL-SN-392228	c 54	N91-14723 *	US-PATENT-APPL-SN-404291	c 74	N91-21871 *
US-PATENT-APPL-SN-377784	c 28	N70-41311 *	US-PATENT-APPL-SN-392235	c 37	N91-21542 *	US-PATENT-APPL-SN-404293	c 37	N91-14609 *
US-PATENT-APPL-SN-377891	c 52	N84-34913 *	US-PATENT-APPL-SN-392239	c 33	N91-14552 *	US-PATENT-APPL-SN-404809	c 32	N90-16104 * #
US-PATENT-APPL-SN-377892	c 33	N83-24763 *	US-PATENT-APPL-SN-392823	c 25	N74-33378 *	US-PATENT-APPL-SN-404809	c 27	N84-27885 *
US-PATENT-APPL-SN-378080	c 12	N71-24692 *	US-PATENT-APPL-SN-392944	c 76	N85-29800 *	US-PATENT-APPL-SN-404809	c 25	N85-28982 *
US-PATENT-APPL-SN-378126	c 44	N76-18643 *	US-PATENT-APPL-SN-392965	c 18	N71-22998 *	US-PATENT-APPL-SN-405154	c 37	N91-21539 *
US-PATENT-APPL-SN-378127	c 44	N76-18641 *	US-PATENT-APPL-SN-392969	c 09	N71-23573 *	US-PATENT-APPL-SN-405169	c 70	N91-21824 *
US-PATENT-APPL-SN-378533	c 37	N84-11497 *	US-PATENT-APPL-SN-392970	c 32	N70-41367 *	US-PATENT-APPL-SN-405341	c 33	N91-14538 *
US-PATENT-APPL-SN-378535	c 74	N84-23248 *	US-PATENT-APPL-SN-392973	c 07	N71-23001 *	US-PATENT-APPL-SN-405342	c 37	N76-15460 *
US-PATENT-APPL-SN-378548	c 54	N91-31803 * #	US-PATENT-APPL-SN-392992	c 15	N71-23052 *	US-PATENT-APPL-SN-405346	c 35	N75-19615 *
US-PATENT-APPL-SN-379019	c 09	N75-12969 *	US-PATENT-APPL-SN-39342	c 09	N72-25252 *	US-PATENT-APPL-SN-405629	c 09	N71-10677 *
US-PATENT-APPL-SN-379049	c 31	N75-13111 *	US-PATENT-APPL-SN-39343	c 34	N74-18552 *	US-PATENT-APPL-SN-405630	c 14	N71-10616 *
US-PATENT-APPL-SN-379072	c 15	N71-16078 *	US-PATENT-APPL-SN-39344	c 14	N72-25409 *	US-PATENT-APPL-SN-405632	c 21	N71-15582 *
US-PATENT-APPL-SN-379417	c 02	N70-41863 *	US-PATENT-APPL-SN-393451	c 02	N70-42016 *	US-PATENT-APPL-SN-406097	c 14	N71-21088 *
US-PATENT-APPL-SN-379601	c 71	N85-30765 *	US-PATENT-APPL-SN-393456	c 33	N83-16633 * #	US-PATENT-APPL-SN-406296	c 25	N79-10163 *
US-PATENT-APPL-SN-379602	c 44	N84-23018 *	US-PATENT-APPL-SN-393461	c 33	N71-17691 *	US-PATENT-APPL-SN-406715	c 35	N75-15014 *
US-PATENT-APPL-SN-379768	c 28	N71-10780 *	US-PATENT-APPL-SN-393464	c 23	N71-21821 *	US-PATENT-APPL-SN-406820	c 74	N86-32266 *
US-PATENT-APPL-SN-379771	c 33	N71-28852 *	US-PATENT-APPL-SN-393523	c 12	N75-24774 *	US-PATENT-APPL-SN-407240	c 27	N83-34041 *
US-PATENT-APPL-SN-380046	c 25	N76-29379 *	US-PATENT-APPL-SN-393524	c 60	N76-21914 *	US-PATENT-APPL-SN-407240	c 27	N85-20124 *
US-PATENT-APPL-SN-380630	c 37	N75-21631 *	US-PATENT-APPL-SN-393525	c 31	N74-32917 *	US-PATENT-APPL-SN-407323	c 32	N75-21485 *
US-PATENT-APPL-SN-380960	c 15	N70-41993 *	US-PATENT-APPL-SN-393526	c 77	N75-20139 *	US-PATENT-APPL-SN-407595	c 28	N70-41992 *
US-PATENT-APPL-SN-380965	c 10	N71-23033 *	US-PATENT-APPL-SN-393527	c 15	N75-13007 *	US-PATENT-APPL-SN-407599	c 14	N71-21091 *
US-PATENT-APPL-SN-381239	c 09	N91-21157 *	US-PATENT-APPL-SN-393528	c 36	N75-19654 *	US-PATENT-APPL-SN-407603	c 05	N71-11199 *
US-PATENT-APPL-SN-381240	c 27	N91-25296 *	US-PATENT-APPL-SN-393581	c 54	N84-23113 *	US-PATENT-APPL-SN-408435	c 15	N71-28937 *
US-PATENT-APPL-SN-381940	c 09	N71-20705 *	US-PATENT-APPL-SN-393582	c 37	N85-21649 *	US-PATENT-APPL-SN-408438	c 07	N71-22750 *
US-PATENT-APPL-SN-382261	c 35	N76-14430 *	US-PATENT-APPL-SN-393583	c 27	N83-29392 * #	US-PATENT-APPL-SN-408442	c 10	N71-23662 *
US-PATENT-APPL-SN-382262	c 37	N74-21058 *	US-PATENT-APPL-SN-393584	c 37	N85-30334 *	US-PATENT-APPL-SN-408575	c 35	N83-32026 *
US-PATENT-APPL-SN-38262	c 28	N70-35422 * #	US-PATENT-APPL-SN-393585	c 37	N82-31690 * #	US-PATENT-APPL-SN-409126	c 18	N71-21068 *
US-PATENT-APPL-SN-382885	c 15	N91-27175 *	US-PATENT-APPL-SN-393586	c 54	N84-28484 *	US-PATENT-APPL-SN-409679	c 09	N84-27749 *
US-PATENT-APPL-SN-382976	c 14	N71-21179 *	US-PATENT-APPL-SN-393588	c 25	N84-16276 *	US-PATENT-APPL-SN-409679	c 33	N82-33634 * #
US-PATENT-APPL-SN-383063	c 37	N84-12493 *	US-PATENT-APPL-SN-394149	c 35	N75-25123 *	US-PATENT-APPL-SN-409680	c 35	N84-22884 *
US-PATENT-APPL-SN-383068	c 44	N84-34792 *	US-PATENT-APPL-SN-394206	c 76	N75-25730 *	US-PATENT-APPL-SN-409990	c 35	N85-20294 *
US-PATENT-APPL-SN-383083	c 33	N84-16453 *	US-PATENT-APPL-SN-394207	c 25	N78-27226 *	US-PATENT-APPL-SN-409991	c 33	N75-27330 *
US-PATENT-APPL-SN-383086	c 36	N85-21639 *	US-PATENT-APPL-SN-394280	c 54	N82-29002 *	US-PATENT-APPL-SN-410325	c 18	N71-23088 *
US-PATENT-APPL-SN-383384	c 06	N84-27733 *	US-PATENT-APPL-SN-394343	c 52	N91-14709 *	US-PATENT-APPL-SN-410326	c 09	N71-21449 *
US-PATENT-APPL-SN-384010	c 10	N71-28859 *	US-PATENT-APPL-SN-394638	c 28	N70-34162 *	US-PATENT-APPL-SN-410330	c 26	N71-23043 *
US-PATENT-APPL-SN-384547	c 36	N85-29264 *	US-PATENT-APPL-SN-394898	c 07	N77-28118 *	US-PATENT-APPL-SN-410331	c 02	N70-41589 *
US-PATENT-APPL-SN-384773	c 15	N76-14158 *	US-PATENT-APPL-SN-395348	c 15	N71-22713 *	US-PATENT-APPL-SN-410332	c 14	N71-23039 *
US-PATENT-APPL-SN-384811	c 15	N71-10809 *	US-PATENT-APPL-SN-395493	c 37	N79-13364 *	US-PATENT-APPL-SN-410572	c 27	N90-15259 * #
US-PATENT-APPL-SN-385013	c 35	N75-19613 *	US-PATENT-APPL-SN-395495	c 54	N92-27759 *	US-PATENT-APPL-SN-410576	c 24	N91-31236 *
US-PATENT-APPL-SN-385059	c 33	N77-21315 *	US-PATENT-APPL-SN-395687	c 37	N75-18573 *	US-PATENT-APPL-SN-411572	c 35	N75-15932 *
US-PATENT-APPL-SN-385220	c 36	N85-30305 *	US-PATENT-APPL-SN-395868	c 33	N75-19516 *	US-PATENT-APPL-SN-411944	c 15	N70-41629 *
US-PATENT-APPL-SN-385520	c 14	N71-23037 *	US-PATENT-APPL-SN-395895	c 36	N78-17366 *	US-PATENT-APPL-SN-411945	c 18	N71-23047 *
US-PATENT-APPL-SN-385522	c 34	N75-33342 *	US-PATENT-APPL-SN-396262	c 31	N91-14508 *	US-PATENT-APPL-SN-411949	c 27	

US-PATENT-APPL-SN-412079	c 37	N75-13266 *	US-PATENT-APPL-SN-426345	c 25	N90-15161 * #	US-PATENT-APPL-SN-441896	c 76	N90-20896 *
US-PATENT-APPL-SN-412080	c 36	N75-19653 *	US-PATENT-APPL-SN-426345	c 25	N91-32196 *	US-PATENT-APPL-SN-441897	c 35	N84-33768 *
US-PATENT-APPL-SN-412379	c 32	N77-10392 *	US-PATENT-APPL-SN-426405	c 25	N75-26043 *	US-PATENT-APPL-SN-441899	c 27	N84-14322 *
US-PATENT-APPL-SN-413101	c 07	N86-20389 *	US-PATENT-APPL-SN-426455	c 28	N71-15661 *	US-PATENT-APPL-SN-441936	c 14	N69-39975 * #
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US-PATENT-APPL-SN-413446	c 15	N72-24522 *	US-PATENT-APPL-SN-427395	c 54	N75-27760 *	US-PATENT-APPL-SN-442815	c 76	N87-23286 *
US-PATENT-APPL-SN-413447	c 09	N72-25256 *	US-PATENT-APPL-SN-427775	c 27	N76-22376 *	US-PATENT-APPL-SN-442835	c 26	N71-29156 *
US-PATENT-APPL-SN-413448	c 09	N72-23173 *	US-PATENT-APPL-SN-427990	c 06	N71-23527 *	US-PATENT-APPL-SN-443289	c 27	N92-10090 *
US-PATENT-APPL-SN-413661	c 15	N71-23024 *	US-PATENT-APPL-SN-428444	c 44	N76-18642 *	US-PATENT-APPL-SN-443297	c 33	N91-14539 *
US-PATENT-APPL-SN-413662	c 09	N70-41929 *	US-PATENT-APPL-SN-428444	c 44	N76-29704 *	US-PATENT-APPL-SN-443406	c 25	N91-21270 *
US-PATENT-APPL-SN-414042	c 35	N79-17192 *	US-PATENT-APPL-SN-428882	c 31	N70-41948 *	US-PATENT-APPL-SN-443414	c 27	N92-10091 *
US-PATENT-APPL-SN-414043	c 27	N76-32315 *	US-PATENT-APPL-SN-428887	c 33	N71-29051 *	US-PATENT-APPL-SN-443522	c 33	N92-22042 *
US-PATENT-APPL-SN-414044	c 03	N73-20039 *	US-PATENT-APPL-SN-428890	c 02	N70-41630 *	US-PATENT-APPL-SN-443523	c 20	N92-10054 *
US-PATENT-APPL-SN-414106	c 54	N84-16803 *	US-PATENT-APPL-SN-428992	c 34	N77-18382 *	US-PATENT-APPL-SN-443539	c 32	N91-25318 *
US-PATENT-APPL-SN-414107	c 35	N84-22932 *	US-PATENT-APPL-SN-428993	c 45	N75-27585 *	US-PATENT-APPL-SN-444087	c 02	N71-11041 * #
US-PATENT-APPL-SN-414237	c 35	N85-30282 *	US-PATENT-APPL-SN-428994	c 32	N75-21486 *	US-PATENT-APPL-SN-444124	c 52	N84-23095 *
US-PATENT-APPL-SN-41430	c 10	N72-20221 *	US-PATENT-APPL-SN-428994	c 32	N76-16249 *	US-PATENT-APPL-SN-444125	c 20	N83-17588 * #
US-PATENT-APPL-SN-41431	c 37	N77-27400 *	US-PATENT-APPL-SN-428995	c 51	N75-25503 *	US-PATENT-APPL-SN-444149	c 47	N84-28292 *
US-PATENT-APPL-SN-414482	c 10	N71-10578 *	US-PATENT-APPL-SN-429437	c 35	N75-23910 *	US-PATENT-APPL-SN-444150	c 35	N84-22933 *
US-PATENT-APPL-SN-41455	c 02	N70-33255 *	US-PATENT-APPL-SN-429514	c 24	N90-26881 * #	US-PATENT-APPL-SN-445178	c 37	N76-15461 *
US-PATENT-APPL-SN-414811	c 32	N92-22033 *	US-PATENT-APPL-SN-429515	c 14	N92-15081 *	US-PATENT-APPL-SN-445292	c 11	N71-23030 *
US-PATENT-APPL-SN-414812	c 35	N90-17104 * #	US-PATENT-APPL-SN-429516	c 05	N82-21587 *	US-PATENT-APPL-SN-445398	c 74	N78-15880 *
US-PATENT-APPL-SN-414815	c 33	N91-26438 *	US-PATENT-APPL-SN-429574	c 27	N91-28425 * #	US-PATENT-APPL-SN-445807	c 14	N71-22996 *
US-PATENT-APPL-SN-414816	c 37	N91-14617 *	US-PATENT-APPL-SN-429734	c 04	N91-14321 *	US-PATENT-APPL-SN-446071	c 25	N82-29370 *
US-PATENT-APPL-SN-414820	c 33	N90-17010 * #	US-PATENT-APPL-SN-429737	c 34	N90-27071 * #	US-PATENT-APPL-SN-446131	c 14	N71-22992 *
US-PATENT-APPL-SN-415486	c 37	N75-19683 *	US-PATENT-APPL-SN-429739	c 25	N92-33009 *	US-PATENT-APPL-SN-446560	c 12	N76-15189 *
US-PATENT-APPL-SN-415678	c 08	N86-27288 *	US-PATENT-APPL-SN-429932	c 05	N71-20268 *	US-PATENT-APPL-SN-446562	c 36	N76-14447 *
US-PATENT-APPL-SN-415679	c 37	N85-21652 *	US-PATENT-APPL-SN-430192	c 18	N71-27170 *	US-PATENT-APPL-SN-446564	c 35	N75-26334 *
US-PATENT-APPL-SN-415680	c 27	N84-27884 *	US-PATENT-APPL-SN-430226	c 18	N71-23658 *	US-PATENT-APPL-SN-446567	c 34	N76-27515 *
US-PATENT-APPL-SN-415960	c 37	N85-20337 *	US-PATENT-APPL-SN-430470	c 27	N90-26955 * #	US-PATENT-APPL-SN-446568	c 37	N76-23570 *
US-PATENT-APPL-SN-416135	c 32	N75-15854 *	US-PATENT-APPL-SN-430496	c 26	N75-29236 *	US-PATENT-APPL-SN-446569	c 77	N75-20140 *
US-PATENT-APPL-SN-416938	c 11	N71-10746 *	US-PATENT-APPL-SN-430748	c 76	N79-21910 *	US-PATENT-APPL-SN-447124	c 35	N75-30503 *
US-PATENT-APPL-SN-416940	c 21	N71-21708 *	US-PATENT-APPL-SN-430776	c 03	N70-41954 *	US-PATENT-APPL-SN-447371	c 27	N84-22746 *
US-PATENT-APPL-SN-416941	c 31	N70-34159 *	US-PATENT-APPL-SN-430777	c 18	N71-24184 *	US-PATENT-APPL-SN-447927	c 11	N71-10776 *
US-PATENT-APPL-SN-416943	c 14	N71-23269 *	US-PATENT-APPL-SN-430778	c 03	N71-10728 *	US-PATENT-APPL-SN-447928	c 15	N71-10577 *
US-PATENT-APPL-SN-416945	c 10	N71-23543 *	US-PATENT-APPL-SN-430780	c 03	N71-12260 *	US-PATENT-APPL-SN-447930	c 14	N69-39896 * #
US-PATENT-APPL-SN-416946	c 28	N71-15563 *	US-PATENT-APPL-SN-431235	c 15	N71-16052 *	US-PATENT-APPL-SN-447933	c 03	N69-21337 * #
US-PATENT-APPL-SN-417253	c 11	N71-23042 *	US-PATENT-APPL-SN-431420	c 37	N85-29282 *	US-PATENT-APPL-SN-448320	c 91	N76-30131 *
US-PATENT-APPL-SN-418137	c 16	N84-22601 *	US-PATENT-APPL-SN-431448	c 37	N84-22957 *	US-PATENT-APPL-SN-448321	c 27	N78-32261 *
US-PATENT-APPL-SN-418138	c 16	N84-27784 *	US-PATENT-APPL-SN-431538	c 18	N91-27200 *	US-PATENT-APPL-SN-448323	c 18	N76-17185 *
US-PATENT-APPL-SN-418139	c 24	N84-27829 *	US-PATENT-APPL-SN-431886	c 18	N84-27787 *	US-PATENT-APPL-SN-448325	c 33	N75-26244 *
US-PATENT-APPL-SN-418320	c 03	N91-31113 *	US-PATENT-APPL-SN-432025	c 15	N71-21531 *	US-PATENT-APPL-SN-448365	c 10	N71-26414 *
US-PATENT-APPL-SN-418362	c 14	N71-20741 *	US-PATENT-APPL-SN-432026	c 07	N71-23405 *	US-PATENT-APPL-SN-448881	c 32	N85-29118 *
US-PATENT-APPL-SN-418372	c 27	N91-13562 * #	US-PATENT-APPL-SN-432027	c 21	N70-41930 *	US-PATENT-APPL-SN-448898	c 15	N70-41310 *
US-PATENT-APPL-SN-418373	c 33	N91-27479 *	US-PATENT-APPL-SN-432028	c 15	N71-22723 *	US-PATENT-APPL-SN-449118	c 33	N75-19524 *
US-PATENT-APPL-SN-418374	c 35	N91-14591 *	US-PATENT-APPL-SN-432030	c 12	N71-20896 *	US-PATENT-APPL-SN-449153	c 54	N75-27621 *
US-PATENT-APPL-SN-418611	c 27	N91-27372 *	US-PATENT-APPL-SN-432032	c 15	N69-24322 * #	US-PATENT-APPL-SN-449209	c 39	N92-29155 *
US-PATENT-APPL-SN-418612	c 33	N91-14550 *	US-PATENT-APPL-SN-432057	c 33	N84-14423 *	US-PATENT-APPL-SN-449210	c 27	N90-26956 * #
US-PATENT-APPL-SN-418931	c 05	N70-42000 *	US-PATENT-APPL-SN-432433	c 15	N71-22705 *	US-PATENT-APPL-SN-449211	c 39	N92-28757 *
US-PATENT-APPL-SN-418933	c 15	N71-23022 *	US-PATENT-APPL-SN-433196	c 44	N84-23019 *	US-PATENT-APPL-SN-449211	c 39	N92-29101 *
US-PATENT-APPL-SN-419319	c 34	N76-17317 *	US-PATENT-APPL-SN-43327	c 15	N72-26371 *	US-PATENT-APPL-SN-449901	c 28	N70-41967 *
US-PATENT-APPL-SN-419554	c 23	N91-25185 *	US-PATENT-APPL-SN-433598	c 27	N84-22747 *	US-PATENT-APPL-SN-449902	c 14	N70-41681 *
US-PATENT-APPL-SN-419747	c 17	N76-21250 *	US-PATENT-APPL-SN-433804	c 16	N90-16781 * #	US-PATENT-APPL-SN-450166	c 33	N84-27975 *
US-PATENT-APPL-SN-419748	c 27	N76-14264 *	US-PATENT-APPL-SN-433812	c 27	N92-33008 *	US-PATENT-APPL-SN-450319	c 33	N84-33661 *
US-PATENT-APPL-SN-419831	c 35	N75-21582 *	US-PATENT-APPL-SN-433821	c 09	N71-16089 *	US-PATENT-APPL-SN-450500	c 37	N76-18455 *
US-PATENT-APPL-SN-419831	c 35	N77-17426 *	US-PATENT-APPL-SN-433863	c 24	N91-17145 *	US-PATENT-APPL-SN-450502	c 37	N76-18456 *
US-PATENT-APPL-SN-42022	c 15	N70-35409 *	US-PATENT-APPL-SN-433881	c 37	N92-10197 *	US-PATENT-APPL-SN-450504	c 23	N77-17161 *
US-PATENT-APPL-SN-420245	c 08	N71-22749 *	US-PATENT-APPL-SN-433968	c 33	N75-25041 *	US-PATENT-APPL-SN-450505	c 37	N75-31446 *
US-PATENT-APPL-SN-420250	c 15	N71-23051 *	US-PATENT-APPL-SN-434084	c 33	N84-27974 *	US-PATENT-APPL-SN-45053	c 33	N75-31330 *
US-PATENT-APPL-SN-420424	c 34	N75-26282 *	US-PATENT-APPL-SN-434085	c 33	N85-29145 *	US-PATENT-APPL-SN-451596	c 17	N71-29137 *
US-PATENT-APPL-SN-420466	c 14	N71-23092 *	US-PATENT-APPL-SN-434087	c 27	N86-19457 *	US-PATENT-APPL-SN-451896	c 26	N86-32551 *
US-PATENT-APPL-SN-420813	c 36	N75-32441 *	US-PATENT-APPL-SN-434143	c 15	N71-15871 *	US-PATENT-APPL-SN-452464	c 24	N84-11213 *
US-PATENT-APPL-SN-42088	c 34	N78-17336 *	US-PATENT-APPL-SN-434148	c 31	N71-24750 *	US-PATENT-APPL-SN-452465	c 25	N90-11824 *
US-PATENT-APPL-SN-421702	c 44	N75-32581 *	US-PATENT-APPL-SN-434195	c 27	N92-22044 *	US-PATENT-APPL-SN-452466	c 03	N84-33394 *
US-PATENT-APPL-SN-421702	c 44	N76-23675 *	US-PATENT-APPL-SN-434672	c 34	N84-14461 *	US-PATENT-APPL-SN-452761	c 33	N75-19522 *
US-PATENT-APPL-SN-422092	c 14	N71-22989 *	US-PATENT-APPL-SN-434674	c 34	N83-35307 *	US-PATENT-APPL-SN-452767	c 05	N75-25915 *
US-PATENT-APPL-SN-422095	c 07	N71-10676 *	US-PATENT-APPL-SN-435387	c 10	N70-42032 *	US-PATENT-APPL-SN-452768	c 52	N76-30793 *
US-PATENT-APPL-SN-422096	c 03	N71-29044 *	US-PATENT-APPL-SN-435433	c 14	N71-30026 *	US-PATENT-APPL-SN-452769	c 44	N76-16612 *
US-PATENT-APPL-SN-422097	c 11	N71-21481 *	US-PATENT-APPL-SN-435511	c 27	N84-27886 *	US-PATENT-APPL-SN-452770	c 33	N75-31332 *
US-PATENT-APPL-SN-422098	c 15	N71-22797 *	US-PATENT-APPL-SN-435756	c 12	N71-16894 *	US-PATENT-APPL-SN-452944	c 18	N71-24183 *
US-PATENT-APPL-SN-422099	c 14	N71-22964 *	US-PATENT-APPL-SN-436313	c 54	N77-32721 *	US-PATENT-APPL-SN-452945	c 18	N69-39979 * #
US-PATENT-APPL-SN-422726	c 71	N91-27914 *	US-PATENT-APPL-SN-436315	c 26	N75-19408 *	US-PATENT-APPL-SN-453115	c 32	N76-14321 *
US-PATENT-APPL-SN-422864	c 05	N69-21925 * #	US-PATENT-APPL-SN-436316	c 20	N76-14191 *	US-PATENT-APPL-SN-453225	c 15	N71-24833 *
US-PATENT-APPL-SN-422865	c 31	N70-41631 *	US-PATENT-APPL-SN-436317	c 37	N76-24575 *	US-PATENT-APPL-SN-453227	c 31	N71-10582 *
US-PATENT-APPL-SN-422867	c 15	N70-40062 *	US-PATENT-APPL-SN-437556	c 27	N76-16230 *	US-PATENT-APPL-SN-453229	c 17	N71-23828 *
US-PATENT-APPL-SN-422868	c 15	N71-10617 *	US-PATENT-APPL-SN-437611	c 09	N71-22796 *	US-PATENT-APPL-SN-453231	c 23	N71-15467 *
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US-PATENT-APPL-SN-423016	c 36	N85-21631 *	US-PATENT-APPL-SN-437917	c 60	N85-33701 *	US-PATENT-APPL-SN-453232	c 18	N75-19329 *
US-PATENT-APPL-SN-423412	c 08	N71-22897 *	US-PATENT-APPL-SN-438135	c 09	N71-23027 *	US-PATENT-APPL-SN-453241	c 33	N75-29318 *
US-PATENT-APPL-SN-424013	c 34	N76-27517 *	US-PATENT-APPL-SN-438147	c 75	N76-14931 *	US-PATENT-APPL-SN-455163	c 32	N75-26195 *
US-PATENT-APPL-SN-424038	c 24	N75-30260 *	US-PATENT-APPL-SN-438446	c 74	N86-20126 *	US-PATENT-APPL-SN-455165	c 36	N75-30524 *
US-PATENT-APPL-SN-424153	c 15	N71-21234 *	US-PATENT-APPL-SN-438797	c 14	N71-10500 *	US-PATENT-APPL-SN-45519	c 14	N72-25410 *
US-PATENT-APPL-SN-424156	c 02	N71-23007 *	US-PATENT-APPL-SN-438883	c 18	N73-30532 *	US-PATENT-APPL-SN-455352	c 33	N71-20834 *
US-PATENT-APPL-SN-424157	c 28	N70-41275 *	US-PATENT-APPL-SN-438884	c 15	N72-25457 *	US-PATENT-APPL-SN-455477	c 08	N71-19887 *
US-PATENT-APPL-SN-425096	c 05	N71-23080 *	US-PATENT-APPL-SN-439317	c 27	N92-31792 *	US-PATENT-APPL-SN-45549	c 27	N76-16228 *
US-PATENT-APPL-SN-425201	c 04	N86-19304 *	US-PATENT-APPL-SN-439489	c 09	N70-41717 *	US-PATENT-APPL-SN-455460	c 26	N84-27855 *
US-PATENT-APPL-SN-425202	c 74	N85-34629 *	US-PATENT-APPL-SN-439490	c 23	N69-24332 * #	US-PATENT-APPL-SN-455578	c 07	N70-41678 *
US-PATENT-APPL-SN-425203	c 35	N84-22930 *	US-PATENT-APPL-SN-440033	c 27	N70-41897 *	US-PATENT-APPL-SN-455581	c 09	N71-23021 *
US-PATENT-APPL-SN-425204	c 32	N85-29117 *	US-PATENT-APPL-SN-440036	c 09	N71-23097 *	US-PATENT-APPL-SN-456874	c 06	N71-23499 *
US-PATENT-APPL-SN-425205	c 35	N85-21595 *	US-PATENT-APPL-SN-440039	c 09	N71-22888 *	US-PATENT-APPL-SN-457295	c 20	N75-24837 *
US-PATENT-APPL-SN-425362	c 15	N71-10658 *	US-PATENT-APPL-SN-440656	c 27	N85-21348 *	US-PATENT-APPL-SN-457874	c 09	N71-23045 *
US-PATENT-APPL-SN-425363	c 09	N71-20658 *	US-PATENT-APPL-SN-440916	c 33	N75-27252 *	US-PATENT-APPL-SN-457875	c 31	N70-42515 *
US-PATENT-APPL-SN-425364	c 33	N71-15623 *	US-PATENT-APPL-SN-440917	c 37	N76-18459 *	US-PATENT-APPL-SN-457876		

US-PATENT-APPL-SN-458065	c 37	N91-13731 *	#	US-PATENT-APPL-SN-473973	c 02	N77-10001 *	US-PATENT-APPL-SN-489997	c 35	N91-13691 *	#
US-PATENT-APPL-SN-458258	c 35	N91-21493 *		US-PATENT-APPL-SN-47440	c 07	N73-20174 *	US-PATENT-APPL-SN-491054	c 14	N71-23174 *	
US-PATENT-APPL-SN-458274	c 37	N91-21540 *		US-PATENT-APPL-SN-47441	c 09	N70-34559 *	US-PATENT-APPL-SN-491058	c 09	N71-23443 *	
US-PATENT-APPL-SN-458280	c 60	N90-27268 *	#	US-PATENT-APPL-SN-47443	c 09	N72-17152 *	US-PATENT-APPL-SN-491059	c 09	N71-23015 *	
US-PATENT-APPL-SN-458467	c 76	N90-17454 *	#	US-PATENT-APPL-SN-474531	c 31	N71-23009 *	US-PATENT-APPL-SN-491113	c 35	N86-19581 *	
US-PATENT-APPL-SN-458476	c 18	N92-21999 *		US-PATENT-APPL-SN-474744	c 35	N76-14431 *	US-PATENT-APPL-SN-491125	c 27	N84-22750 *	
US-PATENT-APPL-SN-458484	c 44	N76-14595 *		US-PATENT-APPL-SN-474745	c 37	N76-14463 *	US-PATENT-APPL-SN-491416	c 35	N75-33368 *	
US-PATENT-APPL-SN-459029	c 37	N91-21544 *		US-PATENT-APPL-SN-474815	c 33	N79-21264 *	US-PATENT-APPL-SN-491417	c 37	N76-19437 *	
US-PATENT-APPL-SN-459138	c 14	N71-10773 *		US-PATENT-APPL-SN-475299	c 31	N71-17679 *	US-PATENT-APPL-SN-491418	c 31	N76-31365 *	
US-PATENT-APPL-SN-459407	c 14	N73-30391 *		US-PATENT-APPL-SN-475336	c 54	N75-27758 *	US-PATENT-APPL-SN-491419	c 32	N76-15330 *	
US-PATENT-APPL-SN-459736	c 33	N75-26245 *		US-PATENT-APPL-SN-475337	c 51	N76-29891 *	US-PATENT-APPL-SN-491845	c 28	N71-15659 *	
US-PATENT-APPL-SN-459842	c 35	N85-30281 *		US-PATENT-APPL-SN-475338	c 35	N76-15431 *	US-PATENT-APPL-SN-492282	c 27	N85-20124 *	
US-PATENT-APPL-SN-460509	c 37	N84-33807 *		US-PATENT-APPL-SN-476244	c 33	N84-22885 *	US-PATENT-APPL-SN-492344	c 05	N71-22896 *	
US-PATENT-APPL-SN-460733	c 37	N83-20154 *	#	US-PATENT-APPL-SN-476759	c 03	N70-42073 *	US-PATENT-APPL-SN-492964	c 25	N85-21280 *	
US-PATENT-APPL-SN-460876	c 09	N69-21470 *	#	US-PATENT-APPL-SN-476761	c 11	N71-10748 *	US-PATENT-APPL-SN-493179	c 23	N85-35227 *	
US-PATENT-APPL-SN-460877	c 33	N71-23085 *		US-PATENT-APPL-SN-476763	c 09	N69-21313 *	US-PATENT-APPL-SN-493190	c 43	N91-21621 *	
US-PATENT-APPL-SN-461073	c 33	N75-26246 *		US-PATENT-APPL-SN-477333	c 28	N70-41922 *	US-PATENT-APPL-SN-493359	c 20	N76-21275 *	
US-PATENT-APPL-SN-461477	c 37	N75-19686 *		US-PATENT-APPL-SN-478129	c 25	N86-27431 *	US-PATENT-APPL-SN-493363	c 33	N76-21390 *	
US-PATENT-APPL-SN-461724	c 31	N85-21404 *		US-PATENT-APPL-SN-478130	c 74	N85-23396 *	US-PATENT-APPL-SN-493529	c 51	N91-31755 *	
US-PATENT-APPL-SN-461765	c 17	N71-23046 *		US-PATENT-APPL-SN-478131	c 26	N87-14482 *	US-PATENT-APPL-SN-493864	c 23	N90-20133 *	
US-PATENT-APPL-SN-461788	c 27	N85-21349 *		US-PATENT-APPL-SN-478491	c 14	N69-21363 *	US-PATENT-APPL-SN-493864	c 23	N90-23475 *	
US-PATENT-APPL-SN-462341	c 44	N76-31666 *		US-PATENT-APPL-SN-478800	c 37	N76-19436 *	US-PATENT-APPL-SN-493865	c 24	N86-19380 *	
US-PATENT-APPL-SN-462424	c 24	N77-19171 *		US-PATENT-APPL-SN-478802	c 35	N75-29381 *	US-PATENT-APPL-SN-493866	c 71	N84-28568 *	
US-PATENT-APPL-SN-462497	c 25	N85-21279 *		US-PATENT-APPL-SN-478803	c 31	N76-14284 *	US-PATENT-APPL-SN-493942	c 14	N71-17659 *	
US-PATENT-APPL-SN-462508	c 35	N86-19580 *		US-PATENT-APPL-SN-479353	c 15	N71-23256 *	US-PATENT-APPL-SN-493943	c 15	N71-21529 *	
US-PATENT-APPL-SN-462705	c 37	N75-19684 *		US-PATENT-APPL-SN-479357	c 36	N77-19416 *	US-PATENT-APPL-SN-494280	c 28	N71-23081 *	
US-PATENT-APPL-SN-462762	c 12	N69-21466 *	#	US-PATENT-APPL-SN-479485	c 27	N92-16121 *	US-PATENT-APPL-SN-494282	c 15	N69-39735 *	#
US-PATENT-APPL-SN-462763	c 14	N71-22991 *		US-PATENT-APPL-SN-480210	c 11	N71-21474 *	US-PATENT-APPL-SN-494283	c 31	N71-24035 *	
US-PATENT-APPL-SN-462844	c 33	N75-19520 *		US-PATENT-APPL-SN-480211	c 14	N71-26135 *	US-PATENT-APPL-SN-494287	c 03	N71-22974 *	
US-PATENT-APPL-SN-462903	c 37	N76-14461 *		US-PATENT-APPL-SN-480385	c 74	N92-16808 *	US-PATENT-APPL-SN-494739	c 07	N71-26291 *	
US-PATENT-APPL-SN-463456	c 37	N85-30333 *		US-PATENT-APPL-SN-480449	c 33	N92-33011 *	US-PATENT-APPL-SN-495021	c 44	N78-13526 *	
US-PATENT-APPL-SN-463720	c 62	N91-32852 *		US-PATENT-APPL-SN-480985	c 18	N91-21222 *	US-PATENT-APPL-SN-495022	c 60	N77-12721 *	
US-PATENT-APPL-SN-463925	c 74	N76-30053 *		US-PATENT-APPL-SN-481013	c 60	N92-33057 *	US-PATENT-APPL-SN-495380	c 37	N85-29285 *	
US-PATENT-APPL-SN-464720	c 32	N76-16249 *		US-PATENT-APPL-SN-481020	c 36	N83-29681 *	US-PATENT-APPL-SN-495380	c 37	N87-22976 *	
US-PATENT-APPL-SN-464721	c 37	N75-26372 *		US-PATENT-APPL-SN-481086	c 33	N84-33660 *	US-PATENT-APPL-SN-495381	c 24	N84-22695 *	
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US-PATENT-APPL-SN-465364	c 44	N85-20530 *		US-PATENT-APPL-SN-482670	c 14	N71-21007 *	US-PATENT-APPL-SN-499126	c 23	N86-19376 *	
US-PATENT-APPL-SN-465365	c 43	N86-19711 *		US-PATENT-APPL-SN-482952	c 09	N71-28926 *	US-PATENT-APPL-SN-500044	c 35	N85-21597 *	
US-PATENT-APPL-SN-465366	c 27	N85-20126 *		US-PATENT-APPL-SN-482953	c 74	N76-18913 *	US-PATENT-APPL-SN-500046	c 31	N87-16918 *	
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US-PATENT-APPL-SN-466868	c 22	N71-23599 *		US-PATENT-APPL-SN-483851	c 35	N76-15435 *	US-PATENT-APPL-SN-500980	c 72	N76-15860 *	
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US-PATENT-APPL-SN-469012	c 25	N71-20747 *		US-PATENT-APPL-SN-484485	c 01	N71-23497 *	US-PATENT-APPL-SN-502006	c 07	N72-17109 *	
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US-PATENT-APPL-SN-469864	c 37	N86-19605 *		US-PATENT-APPL-SN-484745	c 35	N85-20295 *	US-PATENT-APPL-SN-502124	c 35	N76-16393 *	
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US-PATENT-APPL-SN-511564	c 09	N69-39885 *	#	US-PATENT-APPL-SN-523559	c 74	N85-29750 *	US-PATENT-APPL-SN-538166	c 15	N71-21177 *
US-PATENT-APPL-SN-511567	c 05	N71-12336 *		US-PATENT-APPL-SN-523560	c 60	N86-21154 *	US-PATENT-APPL-SN-538168	c 23	N71-16098 *
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US-PATENT-APPL-SN-512562	c 16	N71-24074 *		US-PATENT-APPL-SN-524959	c 76	N90-27518 *	US-PATENT-APPL-SN-538982	c 33	N77-14333 *
US-PATENT-APPL-SN-512795	c 27	N84-22745 *		US-PATENT-APPL-SN-526438	c 25	N76-22323 *	US-PATENT-APPL-SN-538983	c 33	N76-18353 *
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US-PATENT-APPL-SN-557861	c 03	N71-24605 *	US-PATENT-APPL-SN-571058	c 24	N91-27244 *	US-PATENT-APPL-SN-583056	c 37	N78-17384 *
US-PATENT-APPL-SN-557868	c 14	N70-41682 *	US-PATENT-APPL-SN-571059	c 24	N91-13502 *	US-PATENT-APPL-SN-583219	c 43	N82-13465 *
US-PATENT-APPL-SN-557871	c 10	N71-21483 *	US-PATENT-APPL-SN-571062	c 37	N91-13732 *	US-PATENT-APPL-SN-583485	c 33	N77-28385 *
US-PATENT-APPL-SN-55806	c 06	N72-31140 *	US-PATENT-APPL-SN-571344	c 35	N92-10166 *	US-PATENT-APPL-SN-583486	c 33	N77-26386 *
US-PATENT-APPL-SN-558600	c 74	N77-10899 *	US-PATENT-APPL-SN-571458	c 44	N77-10635 *	US-PATENT-APPL-SN-583487	c 52	N76-19785 *
US-PATENT-APPL-SN-559055	c 33	N71-29046 *	US-PATENT-APPL-SN-571459	c 54	N78-14784 *	US-PATENT-APPL-SN-584015	c 14	N71-26475 *
US-PATENT-APPL-SN-559349	c 33	N71-24145 *	US-PATENT-APPL-SN-571613	c 74	N86-20124 *	US-PATENT-APPL-SN-584018	c 35	N92-10185 *
US-PATENT-APPL-SN-559350	c 33	N71-28892 *	US-PATENT-APPL-SN-571614	c 35	N86-20750 *	US-PATENT-APPL-SN-584066	c 10	N71-20852 *
US-PATENT-APPL-SN-559351	c 14	N69-39785 *	US-PATENT-APPL-SN-571615	c 74	N87-14971 *	US-PATENT-APPL-SN-584067	c 07	N71-12392 *
US-PATENT-APPL-SN-559845	c 35	N76-29551 *	US-PATENT-APPL-SN-571616	c 25	N86-19413 *	US-PATENT-APPL-SN-584070	c 09	N69-27500 *
US-PATENT-APPL-SN-559846	c 34	N79-13289 *	US-PATENT-APPL-SN-571617	c 26	N85-35267 *	US-PATENT-APPL-SN-584071	c 26	N71-16037 *
US-PATENT-APPL-SN-559846	c 34	N80-24573 *	US-PATENT-APPL-SN-571687	c 47	N91-15561 *	US-PATENT-APPL-SN-584072	c 15	N69-39786 *
US-PATENT-APPL-SN-559847	c 34	N79-13288 *	US-PATENT-APPL-SN-571821	c 20	N72-22296 *	US-PATENT-APPL-SN-584094	c 26	N77-20201 *
US-PATENT-APPL-SN-559988	c 71	N85-29693 *	US-PATENT-APPL-SN-57252	c 14	N72-25414 *	US-PATENT-APPL-SN-584914	c 54	N78-17679 *
US-PATENT-APPL-SN-560035	c 24	N85-30027 *	US-PATENT-APPL-SN-57253	c 18	N72-25541 *	US-PATENT-APPL-SN-585217	c 54	N78-17677 *
US-PATENT-APPL-SN-560691	c 32	N91-27439 *	US-PATENT-APPL-SN-572990	c 37	N78-16369 *	US-PATENT-APPL-SN-585420	c 35	N76-31489 *
US-PATENT-APPL-SN-560717	c 27	N92-33014 *	US-PATENT-APPL-SN-572991	c 51	N77-22794 *	US-PATENT-APPL-SN-585627	c 52	N91-14709 *
US-PATENT-APPL-SN-560891	c 73	N78-19920 *	US-PATENT-APPL-SN-573029	c 07	N79-14097 *	US-PATENT-APPL-SN-585988	c 33	N75-29318 *
US-PATENT-APPL-SN-560908	c 31	N91-27385 *	US-PATENT-APPL-SN-573162	c 37	N86-27630 *	US-PATENT-APPL-SN-586324	c 05	N71-26293 *
US-PATENT-APPL-SN-560923	c 02	N92-28729 *	US-PATENT-APPL-SN-573432	c 14	N71-23790 *	US-PATENT-APPL-SN-586325	c 31	N71-24315 *
US-PATENT-APPL-SN-560924	c 74	N91-25840 *	US-PATENT-APPL-SN-57399	c 03	N72-20034 *	US-PATENT-APPL-SN-586329	c 05	N71-24623 *
US-PATENT-APPL-SN-560926	c 24	N92-21725 *	US-PATENT-APPL-SN-574208	c 37	N76-29590 *	US-PATENT-APPL-SN-586330	c 05	N71-12344 *
US-PATENT-APPL-SN-560967	c 15	N69-21922 *	US-PATENT-APPL-SN-574218	c 52	N76-29895 *	US-PATENT-APPL-SN-586369	c 74	N92-33017 *
US-PATENT-APPL-SN-560968	c 10	N71-24863 *	US-PATENT-APPL-SN-574219	c 35	N76-31490 *	US-PATENT-APPL-SN-587749	c 60	N88-29310 *
US-PATENT-APPL-SN-560969	c 14	N71-15622 *	US-PATENT-APPL-SN-574280	c 15	N69-21460 *	US-PATENT-APPL-SN-587764	c 18	N86-24729 *
US-PATENT-APPL-SN-561020	c 44	N76-23675 *	US-PATENT-APPL-SN-574282	c 15	N69-23190 *	US-PATENT-APPL-SN-5878		

US-PATENT-APPL-SN-587921	c 74	N92-28571 *	US-PATENT-APPL-SN-600266	c 14	N71-20430 *	US-PATENT-APPL-SN-615535	c 15	N72-25453 *
US-PATENT-APPL-SN-587922	c 61	N91-13911 *	US-PATENT-APPL-SN-600682	c 14	N71-20461 *	US-PATENT-APPL-SN-615505	c 34	N85-29180 *
US-PATENT-APPL-SN-588036	c 18	N84-22612 *	US-PATENT-APPL-SN-601130	c 31	N86-21718 *	US-PATENT-APPL-SN-615668	c 63	N92-33019 *
US-PATENT-APPL-SN-588039	c 18	N87-14373 *	US-PATENT-APPL-SN-601228	c 15	N71-17652 *	US-PATENT-APPL-SN-616002	c 34	N86-27583 *
US-PATENT-APPL-SN-588164	c 31	N85-29082 *	US-PATENT-APPL-SN-601229	c 14	N71-26474 *	US-PATENT-APPL-SN-616332	c 24	N77-27188 *
US-PATENT-APPL-SN-588635	c 21	N71-15642 *	US-PATENT-APPL-SN-601954	c 76	N92-34171 *	US-PATENT-APPL-SN-616333	c 33	N76-32457 *
US-PATENT-APPL-SN-588651	c 31	N71-24813 *	US-PATENT-APPL-SN-601957	c 27	N91-15412 *	US-PATENT-APPL-SN-616472	c 74	N77-22951 *
US-PATENT-APPL-SN-588671	c 03	N71-23354 *	US-PATENT-APPL-SN-602049	c 35	N86-32697 *	US-PATENT-APPL-SN-616528	c 24	N80-33482 *
US-PATENT-APPL-SN-588721	c 27	N78-33228 *	US-PATENT-APPL-SN-602617	c 37	N77-23483 *	US-PATENT-APPL-SN-617021	c 23	N71-16101 *
US-PATENT-APPL-SN-589119	c 32	N77-32342 *	US-PATENT-APPL-SN-602618	c 44	N76-31667 *	US-PATENT-APPL-SN-617022	c 07	N69-27462 *
US-PATENT-APPL-SN-589172	c 27	N79-14214 *	US-PATENT-APPL-SN-602676	c 22	N73-32528 *	US-PATENT-APPL-SN-617202	c 74	N77-28933 *
US-PATENT-APPL-SN-589173	c 32	N77-12240 *	US-PATENT-APPL-SN-602828	c 09	N71-13531 *	US-PATENT-APPL-SN-617612	c 52	N77-10780 *
US-PATENT-APPL-SN-589233	c 33	N77-14335 *	US-PATENT-APPL-SN-603052	c 31	N91-25305 *	US-PATENT-APPL-SN-617752	c 37	N92-16318 *
US-PATENT-APPL-SN-589571	c 27	N92-33015 *	US-PATENT-APPL-SN-603055	c 27	N91-13566 *	US-PATENT-APPL-SN-617770	c 14	N71-23267 *
US-PATENT-APPL-SN-590141	c 03	N69-24267 *	US-PATENT-APPL-SN-603335	c 02	N91-27139 *	US-PATENT-APPL-SN-617774	c 18	N71-16124 *
US-PATENT-APPL-SN-590144	c 15	N71-15606 *	US-PATENT-APPL-SN-603337	c 37	N91-32498 *	US-PATENT-APPL-SN-617775	c 06	N71-28807 *
US-PATENT-APPL-SN-590145	c 07	N69-39980 *	US-PATENT-APPL-SN-603374	c 37	N86-19606 *	US-PATENT-APPL-SN-617778	c 18	N69-39895 *
US-PATENT-APPL-SN-590146	c 09	N69-21926 *	US-PATENT-APPL-SN-603375	c 28	N91-14495 *	US-PATENT-APPL-SN-617779	c 14	N71-26244 *
US-PATENT-APPL-SN-590147	c 15	N71-21489 *	US-PATENT-APPL-SN-603396	c 14	N69-23191 *	US-PATENT-APPL-SN-617799	c 09	N69-39929 *
US-PATENT-APPL-SN-590158	c 05	N71-24147 *	US-PATENT-APPL-SN-603397	c 26	N71-23292 *	US-PATENT-APPL-SN-617783	c 15	N69-24266 *
US-PATENT-APPL-SN-590159	c 09	N69-24324 *	US-PATENT-APPL-SN-604337	c 27	N85-29044 *	US-PATENT-APPL-SN-617871	c 27	N85-29043 *
US-PATENT-APPL-SN-590182	c 37	N76-29588 *	US-PATENT-APPL-SN-604374	c 44	N76-29699 *	US-PATENT-APPL-SN-617895	c 32	N77-14292 *
US-PATENT-APPL-SN-590183	c 74	N79-13855 *	US-PATENT-APPL-SN-605090	c 15	N71-19485 *	US-PATENT-APPL-SN-618594	c 37	N77-13418 *
US-PATENT-APPL-SN-590921	c 71	N86-21276 *	US-PATENT-APPL-SN-605091	c 15	N71-26346 *	US-PATENT-APPL-SN-618789	c 70	N92-29130 *
US-PATENT-APPL-SN-590923	c 35	N85-34375 *	US-PATENT-APPL-SN-605092	c 05	N71-23317 *	US-PATENT-APPL-SN-618790	c 47	N92-29148 *
US-PATENT-APPL-SN-590925	c 26	N86-32550 *	US-PATENT-APPL-SN-605093	c 17	N71-24911 *	US-PATENT-APPL-SN-618854	c 27	N92-16123 *
US-PATENT-APPL-SN-590975	c 44	N78-31525 *	US-PATENT-APPL-SN-605094	c 09	N71-24808 *	US-PATENT-APPL-SN-618894	c 12	N72-21310 *
US-PATENT-APPL-SN-591000	c 15	N71-24044 *	US-PATENT-APPL-SN-605095	c 10	N71-19417 *	US-PATENT-APPL-SN-618895	c 07	N72-33146 *
US-PATENT-APPL-SN-591004	c 07	N71-11266 *	US-PATENT-APPL-SN-605096	c 15	N71-24834 *	US-PATENT-APPL-SN-618969	c 05	N71-26333 *
US-PATENT-APPL-SN-591007	c 16	N69-27491 *	US-PATENT-APPL-SN-605097	c 14	N69-21923 *	US-PATENT-APPL-SN-619519	c 32	N71-16106 *
US-PATENT-APPL-SN-591014	c 28	N71-24736 *	US-PATENT-APPL-SN-605098	c 09	N71-26092 *	US-PATENT-APPL-SN-619520	c 05	N69-21380 *
US-PATENT-APPL-SN-591089	c 24	N85-21267 *	US-PATENT-APPL-SN-605099	c 09	N71-23548 *	US-PATENT-APPL-SN-619521	c 06	N69-39889 *
US-PATENT-APPL-SN-591568	c 74	N76-31998 *	US-PATENT-APPL-SN-605100	c 15	N71-21536 *	US-PATENT-APPL-SN-619903	c 15	N69-27505 *
US-PATENT-APPL-SN-591569	c 37	N77-12402 *	US-PATENT-APPL-SN-605102	c 09	N69-39987 *	US-PATENT-APPL-SN-619907	c 09	N69-21543 *
US-PATENT-APPL-SN-591643	c 82	N91-23976 *	US-PATENT-APPL-SN-60531	c 28	N70-37980 *	US-PATENT-APPL-SN-619908	c 08	N71-20571 *
US-PATENT-APPL-SN-591644	c 31	N91-31476 *	US-PATENT-APPL-SN-60536	c 02	N70-38009 *	US-PATENT-APPL-SN-619986	c 37	N75-32465 *
US-PATENT-APPL-SN-591645	c 31	N92-16162 *	US-PATENT-APPL-SN-605518	c 15	N71-23023 *	US-PATENT-APPL-SN-620675	c 35	N78-19466 *
US-PATENT-APPL-SN-591930	c 03	N69-21330 *	US-PATENT-APPL-SN-605964	c 06	N73-30103 *	US-PATENT-APPL-SN-621098	c 09	N71-20446 *
US-PATENT-APPL-SN-592159	c 07	N76-27232 *	US-PATENT-APPL-SN-605994	c 06	N73-30101 *	US-PATENT-APPL-SN-621144	c 02	N92-21588 *
US-PATENT-APPL-SN-592680	c 15	N71-22877 *	US-PATENT-APPL-SN-606027	c 06	N73-30099 *	US-PATENT-APPL-SN-621714	c 15	N71-19569 *
US-PATENT-APPL-SN-592694	c 05	N71-12342 *	US-PATENT-APPL-SN-606036	c 06	N73-30100 *	US-PATENT-APPL-SN-621715	c 05	N71-11207 *
US-PATENT-APPL-SN-593142	c 37	N77-17464 *	US-PATENT-APPL-SN-606426	c 74	N86-29650 *	US-PATENT-APPL-SN-621742	c 28	N71-23968 *
US-PATENT-APPL-SN-593412	c 25	N91-32196 *	US-PATENT-APPL-SN-606431	c 37	N86-25791 *	US-PATENT-APPL-SN-623156	c 04	N77-19056 *
US-PATENT-APPL-SN-593593	c 06	N71-11239 *	US-PATENT-APPL-SN-606432	c 74	N87-21679 *	US-PATENT-APPL-SN-623187	c 34	N77-19353 *
US-PATENT-APPL-SN-593594	c 06	N71-11236 *	US-PATENT-APPL-SN-606462	c 08	N71-24891 *	US-PATENT-APPL-SN-623188	c 54	N77-21844 *
US-PATENT-APPL-SN-593595	c 06	N71-24740 *	US-PATENT-APPL-SN-606463	c 14	N71-24864 *	US-PATENT-APPL-SN-623238	c 51	N77-25769 *
US-PATENT-APPL-SN-593604	c 11	N69-27466 *	US-PATENT-APPL-SN-606464	c 15	N71-18579 *	US-PATENT-APPL-SN-623389	c 31	N81-15154 *
US-PATENT-APPL-SN-593605	c 06	N71-11242 *	US-PATENT-APPL-SN-606891	c 44	N77-14581 *	US-PATENT-APPL-SN-623536	c 09	N78-18083 *
US-PATENT-APPL-SN-593606	c 06	N71-11243 *	US-PATENT-APPL-SN-606898	c 35	N92-29135 *	US-PATENT-APPL-SN-625077	c 44	N86-25874 *
US-PATENT-APPL-SN-593607	c 07	N71-26102 *	US-PATENT-APPL-SN-607461	c 05	N71-12346 *	US-PATENT-APPL-SN-625344	c 34	N92-16241 *
US-PATENT-APPL-SN-594134	c 74	N86-20125 *	US-PATENT-APPL-SN-607484	c 09	N71-26002 *	US-PATENT-APPL-SN-625345	c 51	N92-34232 *
US-PATENT-APPL-SN-594584	c 14	N71-25892 *	US-PATENT-APPL-SN-607608	c 14	N69-27484 *	US-PATENT-APPL-SN-625436	c 33	N90-20320 *
US-PATENT-APPL-SN-594587	c 28	N71-21493 *	US-PATENT-APPL-SN-607969	c 09	N76-23273 *	US-PATENT-APPL-SN-625732	c 35	N77-18417 *
US-PATENT-APPL-SN-594633	c 15	N71-24046 *	US-PATENT-APPL-SN-608247	c 15	N71-20813 *	US-PATENT-APPL-SN-625733	c 26	N77-28265 *
US-PATENT-APPL-SN-595197	c 33	N77-10429 *	US-PATENT-APPL-SN-608452	c 74	N92-16809 *	US-PATENT-APPL-SN-625734	c 35	N78-10428 *
US-PATENT-APPL-SN-595254	c 17	N78-17140 *	US-PATENT-APPL-SN-608482	c 74	N77-20882 *	US-PATENT-APPL-SN-625759	c 37	N77-14478 *
US-PATENT-APPL-SN-595745	c 37	N77-32501 *	US-PATENT-APPL-SN-608483	c 09	N77-19076 *	US-PATENT-APPL-SN-625781	c 33	N77-31404 *
US-PATENT-APPL-SN-595747	c 37	N77-32500 *	US-PATENT-APPL-SN-608493	c 24	N92-16025 *	US-PATENT-APPL-SN-626376	c 05	N71-11189 *
US-PATENT-APPL-SN-596105	c 35	N91-15520 *	US-PATENT-APPL-SN-608494	c 34	N91-23410 *	US-PATENT-APPL-SN-626942	c 51	N77-27677 *
US-PATENT-APPL-SN-596133	c 74	N91-25841 *	US-PATENT-APPL-SN-608504	c 39	N92-29101 *	US-PATENT-APPL-SN-627257	c 08	N71-12504 *
US-PATENT-APPL-SN-596139	c 33	N92-28753 *	US-PATENT-APPL-SN-608657	c 37	N91-31656 *	US-PATENT-APPL-SN-627537	c 71	N88-24241 *
US-PATENT-APPL-SN-596338	c 09	N71-20816 *	US-PATENT-APPL-SN-608741	c 23	N85-28973 *	US-PATENT-APPL-SN-627599	c 18	N71-16046 *
US-PATENT-APPL-SN-596641	c 07	N77-23106 *	US-PATENT-APPL-SN-60876	c 15	N72-27485 *	US-PATENT-APPL-SN-628062	c 25	N92-33611 *
US-PATENT-APPL-SN-596641	c 37	N78-10467 *	US-PATENT-APPL-SN-60881	c 32	N72-25877 *	US-PATENT-APPL-SN-628094	c 16	N71-20400 *
US-PATENT-APPL-SN-596733	c 15	N72-11389 *	US-PATENT-APPL-SN-60882	c 05	N73-32011 *	US-PATENT-APPL-SN-628221	c 07	N78-18066 *
US-PATENT-APPL-SN-596735	c 32	N71-24285 *	US-PATENT-APPL-SN-60883	c 10	N73-13235 *	US-PATENT-APPL-SN-628246	c 15	N71-17687 *
US-PATENT-APPL-SN-596787	c 37	N77-19458 *	US-PATENT-APPL-SN-608944	c 15	N71-23798 *	US-PATENT-APPL-SN-628247	c 09	N69-21542 *
US-PATENT-APPL-SN-596787	c 37	N78-31426 *	US-PATENT-APPL-SN-609050	c 04	N73-27052 *	US-PATENT-APPL-SN-628248	c 14	N69-27432 *
US-PATENT-APPL-SN-596788	c 33	N76-21390 *	US-PATENT-APPL-SN-610723	c 14	N71-23755 *	US-PATENT-APPL-SN-628529	c 37	N92-29138 *
US-PATENT-APPL-SN-596905	c 24	N77-19170 *	US-PATENT-APPL-SN-610724	c 31	N71-28851 *	US-PATENT-APPL-SN-628666	c 31	N85-20153 *
US-PATENT-APPL-SN-596959	c 18	N84-22609 *	US-PATENT-APPL-SN-610728	c 31	N71-22969 *	US-PATENT-APPL-SN-629456	c 37	N77-14479 *
US-PATENT-APPL-SN-596959	c 18	N86-20469 *	US-PATENT-APPL-SN-610801	c 76	N77-32919 *	US-PATENT-APPL-SN-629457	c 35	N77-32454 *
US-PATENT-APPL-SN-596960	c 37	N85-33490 *	US-PATENT-APPL-SN-610802	c 35	N77-20400 *	US-PATENT-APPL-SN-629458	c 35	N78-17357 *
US-PATENT-APPL-SN-597430	c 44	N81-29525 *	US-PATENT-APPL-SN-610879	c 37	N92-22043 *	US-PATENT-APPL-SN-629740	c 29	N91-17250 *
US-PATENT-APPL-SN-597430	c 44	N82-28780 *	US-PATENT-APPL-SN-610883	c 27	N92-16122 *	US-PATENT-APPL-SN-629759	c 15	N71-16076 *
US-PATENT-APPL-SN-598118	c 15	N69-27490 *	US-PATENT-APPL-SN-611214	c 32	N92-10128 *	US-PATENT-APPL-SN-630579	c 35	N77-24454 *
US-PATENT-APPL-SN-598119	c 08	N71-19437 *	US-PATENT-APPL-SN-611414	c 46	N74-23068 *	US-PATENT-APPL-SN-630583	c 33	N77-24375 *
US-PATENT-APPL-SN-598120	c 08	N71-18602 *	US-PATENT-APPL-SN-611414	c 46	N74-23069 *	US-PATENT-APPL-SN-631341	c 60	N78-17691 *
US-PATENT-APPL-SN-598504	c 37	N77-14477 *	US-PATENT-APPL-SN-612265	c 14	N72-22442 *	US-PATENT-APPL-SN-631444	c 16	N72-28521 *
US-PATENT-APPL-SN-598777	c 27	N85-34281 *	US-PATENT-APPL-SN-612568	c 15	N71-28952 *	US-PATENT-APPL-SN-631848	c 09	N71-12514 *
US-PATENT-APPL-SN-598892	c 06	N73-30097 *	US-PATENT-APPL-SN-612740	c 25	N71-20563 *	US-PATENT-APPL-SN-63195	c 14	N72-27408 *
US-PATENT-APPL-SN-59892	c 15	N74-27360 *	US-PATENT-APPL-SN-612899	c 07	N77-18154 *	US-PATENT-APPL-SN-632104	c 09	N71-19470 *
US-PATENT-APPL-SN-59893	c 15	N72-25456 *	US-PATENT-APPL-SN-612964	c 20	N77-10148 *	US-PATENT-APPL-SN-632111	c 37	N79-10422 *
US-PATENT-APPL-SN-59894	c 23	N73-13662 *	US-PATENT-APPL-SN-612965	c 52	N77-14735 *	US-PATENT-APPL-SN-632112	c 35	N77-22449 *
US-PATENT-APPL-SN-59895	c 15	N72-20445 *	US-PATENT-APPL-SN-612966	c 35	N78-12390 *	US-PATENT-APPL-SN-632152	c 10	N71-24798 *
US-PATENT-APPL-SN-598967	c 31	N77-10229 *	US-PATENT-APPL-SN-612967	c 74	N77-18893 *	US-PATENT-APPL-SN-632154	c 09	N69-39984 *
US-PATENT-APPL-SN-598968	c 33	N77-17354 *	US-PATENT-APPL-SN-613004	c 71	N77-26919 *	US-PATENT-APPL-SN-632162	c 14	N69-39937 *
US-PATENT-APPL-SN-598969	c 44	N78-17460 *	US-PATENT-APPL-SN-613046	c 24	N91-15334 *	US-PATENT-APPL-SN-632163	c 30	N71-23723 *
US-PATENT-APPL-SN-599126	c 23	N88-24692 *	US-PATENT-APPL-SN-613139	c 27	N86-27450 *	US-PATENT-APPL-SN-632164	c 15	N69-24319 *
US-PATENT-APPL-SN-599284	c 35	N77-14411 *	US-PATENT-APPL-SN-613140	c 33	N86-20669 *	US-PATENT-APPL-SN-632165	c 14	N71-26266 *
US-PATENT-APPL-SN-599556	c 14	N72-27411 *	US-PATENT-APPL-SN-613188	c 37	N92-29151 *	US-PATENT-APPL-SN-633178	c 25	N84-32447 *
US-PATENT-APPL-SN-599601	c 25	N92-28728 *	US-PATENT-APPL-SN-613235	c 14	N73-30394 *	US-PATENT-APPL-SN-633179	c 34	N86-12547 *
US-PATENT-APPL-SN-59966	c 21	N72-25595 *	US-PATENT-APPL-SN-61329	c 31	N70-37986 *	US-PATENT-APPL-SN-633180	c 09	N89-25242 *
US-PATENT-APPL-SN-								

US-PATENT-APPL-SN-63384	c 05	N72-22093 *	US-PATENT-APPL-SN-644446	c 14	N71-24693 *	US-PATENT-APPL-SN-658957	c 14	N71-17584 *
US-PATENT-APPL-SN-63387	c 27	N78-19302 *	US-PATENT-APPL-SN-644447	c 14	N71-24234 *	US-PATENT-APPL-SN-658964	c 19	N71-26674 *
US-PATENT-APPL-SN-633876	c 27	N77-13217 *	US-PATENT-APPL-SN-644448	c 17	N69-25147 *	US-PATENT-APPL-SN-658999	c 44	N82-24645 *
US-PATENT-APPL-SN-634038	c 25	N71-16073 *	US-PATENT-APPL-SN-644799	c 17	N71-15468 *	US-PATENT-APPL-SN-659474	c 35	N86-26595 *
US-PATENT-APPL-SN-634040	c 15	N71-19489 *	US-PATENT-APPL-SN-645089	c 23	N92-29141 *	US-PATENT-APPL-SN-659475	c 31	N86-32587 *
US-PATENT-APPL-SN-634060	c 09	N69-39897 *	US-PATENT-APPL-SN-645500	c 74	N77-28932 *	US-PATENT-APPL-SN-659882	c 37	N78-13436 *
US-PATENT-APPL-SN-634205	c 35	N77-14406 *	US-PATENT-APPL-SN-645502	c 24	N79-25143 *	US-PATENT-APPL-SN-66004	c 15	N72-25450 *
US-PATENT-APPL-SN-634214	c 73	N78-28913 *	US-PATENT-APPL-SN-645507	c 26	N77-32280 *	US-PATENT-APPL-SN-660371	c 32	N92-29124 *
US-PATENT-APPL-SN-634304	c 27	N79-18052 *	US-PATENT-APPL-SN-645508	c 44	N77-14580 *	US-PATENT-APPL-SN-660571	c 26	N71-23654 *
US-PATENT-APPL-SN-635325	c 14	N69-27431 *	US-PATENT-APPL-SN-645510	c 32	N77-30308 *	US-PATENT-APPL-SN-660572	c 15	N71-15571 *
US-PATENT-APPL-SN-635326	c 14	N71-18482 *	US-PATENT-APPL-SN-645563	c 31	N71-20396 *	US-PATENT-APPL-SN-660573	c 15	N71-28936 *
US-PATENT-APPL-SN-635327	c 12	N69-39988 *	US-PATENT-APPL-SN-645571	c 35	N77-14407 *	US-PATENT-APPL-SN-660755	c 37	N91-23493 *
US-PATENT-APPL-SN-635328	c 09	N69-21467 *	US-PATENT-APPL-SN-645573	c 24	N71-25555 *	US-PATENT-APPL-SN-660841	c 14	N71-15621 *
US-PATENT-APPL-SN-635332	c 08	N72-25209 *	US-PATENT-APPL-SN-645584	c 08	N71-12494 *	US-PATENT-APPL-SN-660842	c 14	N71-23726 *
US-PATENT-APPL-SN-635519	c 35	N77-24455 *	US-PATENT-APPL-SN-645592	c 33	N92-15331 *	US-PATENT-APPL-SN-660843	c 08	N71-24650 *
US-PATENT-APPL-SN-635531	c 33	N77-14334 *	US-PATENT-APPL-SN-646044	c 37	N85-34403 *	US-PATENT-APPL-SN-6610	c 15	N72-22492 *
US-PATENT-APPL-SN-635970	c 15	N69-21465 *	US-PATENT-APPL-SN-646124	c 15	N71-23817 *	US-PATENT-APPL-SN-661170	c 14	N71-24809 *
US-PATENT-APPL-SN-635972	c 18	N71-23710 *	US-PATENT-APPL-SN-646333	c 35	N80-26635 *	US-PATENT-APPL-SN-661481	c 26	N88-14179 *
US-PATENT-APPL-SN-636076	c 35	N92-29156 *	US-PATENT-APPL-SN-646424	c 07	N69-27460 *	US-PATENT-APPL-SN-6615	c 03	N72-25019 *
US-PATENT-APPL-SN-63610	c 06	N72-25147 *	US-PATENT-APPL-SN-646704	c 36	N77-25499 *	US-PATENT-APPL-SN-6616	c 03	N72-22042 *
US-PATENT-APPL-SN-636193	c 74	N78-15880 *	US-PATENT-APPL-SN-646934	c 08	N71-18692 *	US-PATENT-APPL-SN-6617	c 15	N72-22488 *
US-PATENT-APPL-SN-636459	c 44	N87-21410 *	US-PATENT-APPL-SN-64709	c 10	N72-28240 *	US-PATENT-APPL-SN-66206	c 11	N73-13257 *
US-PATENT-APPL-SN-636463	c 20	N87-16875 *	US-PATENT-APPL-SN-64723	c 07	N72-25107 *	US-PATENT-APPL-SN-662175	c 09	N77-27131 *
US-PATENT-APPL-SN-636465	c 37	N85-29284 *	US-PATENT-APPL-SN-647298	c 31	N71-16102 *	US-PATENT-APPL-SN-662176	c 32	N77-21267 *
US-PATENT-APPL-SN-636531	c 37	N92-33018 *	US-PATENT-APPL-SN-647902	c 07	N91-23180 *	US-PATENT-APPL-SN-662181	c 25	N82-21269 *
US-PATENT-APPL-SN-636532	c 37	N92-29140 *	US-PATENT-APPL-SN-648034	c 09	N79-21083 *	US-PATENT-APPL-SN-662182	c 37	N78-27424 *
US-PATENT-APPL-SN-636796	c 35	N78-17358 *	US-PATENT-APPL-SN-648700	c 74	N78-13874 *	US-PATENT-APPL-SN-662182	c 35	N79-26372 *
US-PATENT-APPL-SN-636878	c 14	N71-20442 *	US-PATENT-APPL-SN-648772	c 37	N92-21726 *	US-PATENT-APPL-SN-662763	c 15	N73-12489 *
US-PATENT-APPL-SN-637247	c 35	N77-10493 *	US-PATENT-APPL-SN-648933	c 25	N92-28756 *	US-PATENT-APPL-SN-662828	c 11	N71-18578 *
US-PATENT-APPL-SN-637249	c 38	N76-28563 *	US-PATENT-APPL-SN-649075	c 14	N71-15600 *	US-PATENT-APPL-SN-662829	c 15	N71-15597 *
US-PATENT-APPL-SN-637268	c 47	N77-10753 *	US-PATENT-APPL-SN-649076	c 08	N71-24890 *	US-PATENT-APPL-SN-663008	c 37	N77-28486 *
US-PATENT-APPL-SN-637269	c 52	N77-28717 *	US-PATENT-APPL-SN-649078	c 07	N71-19493 *	US-PATENT-APPL-SN-663180	c 10	N71-23663 *
US-PATENT-APPL-SN-637882	c 15	N71-17650 *	US-PATENT-APPL-SN-649327	c 33	N87-25531 *	US-PATENT-APPL-SN-663840	c 27	N86-20561 *
US-PATENT-APPL-SN-638192	c 10	N71-26415 *	US-PATENT-APPL-SN-649328	c 27	N86-19456 *	US-PATENT-APPL-SN-664008	c 54	N92-16559 *
US-PATENT-APPL-SN-638194	c 33	N71-21507 *	US-PATENT-APPL-SN-649329	c 05	N84-33400 *	US-PATENT-APPL-SN-664091	c 43	N79-17288 *
US-PATENT-APPL-SN-638541	c 33	N86-20671 *	US-PATENT-APPL-SN-649330	c 27	N86-19458 *	US-PATENT-APPL-SN-664194	c 39	N92-10202 *
US-PATENT-APPL-SN-638584	c 33	N86-20670 *	US-PATENT-APPL-SN-649356	c 09	N71-23189 *	US-PATENT-APPL-SN-665032	c 74	N77-22950 *
US-PATENT-APPL-SN-638586	c 32	N87-21207 *	US-PATENT-APPL-SN-649357	c 08	N71-12500 *	US-PATENT-APPL-SN-665033	c 20	N77-20162 *
US-PATENT-APPL-SN-638600	c 25	N92-33029 *	US-PATENT-APPL-SN-649358	c 07	N71-11267 *	US-PATENT-APPL-SN-665209	c 14	N71-23725 *
US-PATENT-APPL-SN-638707	c 14	N69-27486 *	US-PATENT-APPL-SN-649359	c 15	N71-18701 *	US-PATENT-APPL-SN-665509	c 74	N92-29122 *
US-PATENT-APPL-SN-639589	c 28	N70-33372 *	US-PATENT-APPL-SN-649360	c 23	N71-16365 *	US-PATENT-APPL-SN-665676	c 14	N71-19568 *
US-PATENT-APPL-SN-640154	c 09	N71-18600 *	US-PATENT-APPL-SN-650166	c 09	N71-23191 *	US-PATENT-APPL-SN-665679	c 15	N71-20395 *
US-PATENT-APPL-SN-640447	c 15	N71-19486 *	US-PATENT-APPL-SN-650336	c 23	N92-10066 *	US-PATENT-APPL-SN-665680	c 24	N71-16213 *
US-PATENT-APPL-SN-640448	c 08	N71-19420 *	US-PATENT-APPL-SN-651002	c 08	N79-14108 *	US-PATENT-APPL-SN-665681	c 15	N71-18616 *
US-PATENT-APPL-SN-640449	c 09	N71-19516 *	US-PATENT-APPL-SN-651007	c 74	N78-17865 *	US-PATENT-APPL-SN-665734	c 35	N78-18390 *
US-PATENT-APPL-SN-640450	c 15	N71-17694 *	US-PATENT-APPL-SN-651009	c 26	N78-18182 *	US-PATENT-APPL-SN-666536	c 33	N91-28490 *
US-PATENT-APPL-SN-640452	c 09	N71-12513 *	US-PATENT-APPL-SN-651062	c 27	N92-11199 *	US-PATENT-APPL-SN-666551	c 14	N71-23698 *
US-PATENT-APPL-SN-640453	c 23	N71-16099 *	US-PATENT-APPL-SN-651627	c 26	N72-25679 *	US-PATENT-APPL-SN-666553	c 03	N71-11055 *
US-PATENT-APPL-SN-640454	c 06	N71-11238 *	US-PATENT-APPL-SN-651972	c 27	N74-23125 *	US-PATENT-APPL-SN-666554	c 33	N71-16104 *
US-PATENT-APPL-SN-640455	c 10	N71-23099 *	US-PATENT-APPL-SN-652948	c 52	N77-14736 *	US-PATENT-APPL-SN-666555	c 07	N71-24614 *
US-PATENT-APPL-SN-640456	c 03	N71-26726 *	US-PATENT-APPL-SN-652979	c 45	N82-11634 *	US-PATENT-APPL-SN-666992	c 27	N70-30236 *
US-PATENT-APPL-SN-640457	c 03	N71-11052 *	US-PATENT-APPL-SN-653277	c 31	N71-23912 *	US-PATENT-APPL-SN-667010	c 34	N77-27345 *
US-PATENT-APPL-SN-640458	c 15	N71-23811 *	US-PATENT-APPL-SN-653278	c 14	N69-27503 *	US-PATENT-APPL-SN-667625	c 31	N71-15674 *
US-PATENT-APPL-SN-640459	c 10	N71-18723 *	US-PATENT-APPL-SN-653316	c 25	N77-32255 *	US-PATENT-APPL-SN-667636	c 03	N71-20491 *
US-PATENT-APPL-SN-640460	c 14	N69-21541 *	US-PATENT-APPL-SN-653422	c 35	N77-20401 *	US-PATENT-APPL-SN-667637	c 28	N71-14044 *
US-PATENT-APPL-SN-640462	c 15	N71-20443 *	US-PATENT-APPL-SN-653578	c 60	N92-12438 *	US-PATENT-APPL-SN-667928	c 35	N77-30436 *
US-PATENT-APPL-SN-640712	c 24	N85-35233 *	US-PATENT-APPL-SN-653605	c 74	N92-29117 *	US-PATENT-APPL-SN-667929	c 35	N79-14346 *
US-PATENT-APPL-SN-640775	c 35	N92-22039 *	US-PATENT-APPL-SN-653682	c 39	N78-10493 *	US-PATENT-APPL-SN-667930	c 32	N78-28346 *
US-PATENT-APPL-SN-640781	c 03	N69-25146 *	US-PATENT-APPL-SN-654454	c 37	N92-21500 *	US-PATENT-APPL-SN-668116	c 35	N76-16391 *
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US-PATENT-APPL-SN-640784	c 15	N69-39935 *	US-PATENT-APPL-SN-654787	c 07	N77-32148 *	US-PATENT-APPL-SN-668241	c 15	N71-17685 *
US-PATENT-APPL-SN-640785	c 09	N69-24333 *	US-PATENT-APPL-SN-655149	c 07	N77-23106 *	US-PATENT-APPL-SN-668242	c 10	N71-27272 *
US-PATENT-APPL-SN-640786	c 15	N71-24695 *	US-PATENT-APPL-SN-65548	c 18	N70-39897 *	US-PATENT-APPL-SN-668247	c 09	N71-20445 *
US-PATENT-APPL-SN-640787	c 28	N71-24321 *	US-PATENT-APPL-SN-655601	c 32	N86-27513 *	US-PATENT-APPL-SN-668248	c 10	N71-26331 *
US-PATENT-APPL-SN-640788	c 15	N69-27502 *	US-PATENT-APPL-SN-655605	c 52	N87-24874 *	US-PATENT-APPL-SN-668249	c 03	N71-20407 *
US-PATENT-APPL-SN-640789	c 15	N69-27504 *	US-PATENT-APPL-SN-655606	c 32	N89-14374 *	US-PATENT-APPL-SN-668257	c 23	N71-16100 *
US-PATENT-APPL-SN-641142	c 23	N86-32525 *	US-PATENT-APPL-SN-655675	c 17	N71-24142 *	US-PATENT-APPL-SN-668302	c 07	N71-12390 *
US-PATENT-APPL-SN-641143	c 27	N85-34280 *	US-PATENT-APPL-SN-655677	c 08	N71-19432 *	US-PATENT-APPL-SN-668432	c 35	N86-29174 *
US-PATENT-APPL-SN-641146	c 76	N87-13313 *	US-PATENT-APPL-SN-655724	c 15	N71-22706 *	US-PATENT-APPL-SN-668751	c 06	N71-11237 *
US-PATENT-APPL-SN-641147	c 27	N87-23751 *	US-PATENT-APPL-SN-656925	c 37	N91-23492 *	US-PATENT-APPL-SN-668755	c 15	N71-17693 *
US-PATENT-APPL-SN-641152	c 23	N87-28605 *	US-PATENT-APPL-SN-656952	c 09	N71-12519 *	US-PATENT-APPL-SN-668771	c 35	N78-32397 *
US-PATENT-APPL-SN-641152	c 23	N90-20133 *	US-PATENT-APPL-SN-656953	c 14	N71-17585 *	US-PATENT-APPL-SN-668783	c 28	N80-10374 *
US-PATENT-APPL-SN-641152	c 23	N90-23475 *	US-PATENT-APPL-SN-656993	c 09	N71-24843 *	US-PATENT-APPL-SN-668968	c 09	N71-12515 *
US-PATENT-APPL-SN-641153	c 27	N86-32568 *	US-PATENT-APPL-SN-656995	c 21	N71-14132 *	US-PATENT-APPL-SN-668969	c 08	N71-19288 *
US-PATENT-APPL-SN-641420	c 03	N71-23449 *	US-PATENT-APPL-SN-657309	c 31	N86-29055 *	US-PATENT-APPL-SN-668971	c 07	N78-33101 *
US-PATENT-APPL-SN-641431	c 30	N71-16090 *	US-PATENT-APPL-SN-657310	c 35	N87-14670 *	US-PATENT-APPL-SN-669140	c 44	N86-32875 *
US-PATENT-APPL-SN-641441	c 08	N71-18751 *	US-PATENT-APPL-SN-657586	c 37	N91-26542 *	US-PATENT-APPL-SN-669336	c 15	N71-17651 *
US-PATENT-APPL-SN-641784	c 37	N77-32499 *	US-PATENT-APPL-SN-657598	c 37	N92-21727 *	US-PATENT-APPL-SN-669911	c 33	N78-17295 *
US-PATENT-APPL-SN-641798	c 76	N92-22041 *	US-PATENT-APPL-SN-657742	c 18	N71-26100 *	US-PATENT-APPL-SN-669928	c 44	N77-22607 *
US-PATENT-APPL-SN-641802	c 34	N77-30399 *	US-PATENT-APPL-SN-657790	c 33	N92-29153 *	US-PATENT-APPL-SN-670814	c 03	N71-19545 *
US-PATENT-APPL-SN-641803	c 35	N78-18391 *	US-PATENT-APPL-SN-657903	c 07	N83-33884 *	US-PATENT-APPL-SN-670829	c 28	N72-23809 *
US-PATENT-APPL-SN-64224	c 17	N70-38490 *	US-PATENT-APPL-SN-657907	c 27	N78-17213 *	US-PATENT-APPL-SN-671603	c 51	N91-25570 *
US-PATENT-APPL-SN-64226	c 17	N70-38198 *	US-PATENT-APPL-SN-657995	c 35	N77-22450 *	US-PATENT-APPL-SN-672209	c 52	N82-22875 *
US-PATENT-APPL-SN-642310	c 44	N86-19721 *	US-PATENT-APPL-SN-657996	c 60	N78-10709 *	US-PATENT-APPL-SN-672210	c 25	N78-10224 *
US-PATENT-APPL-SN-642602	c 54	N86-29507 *	US-PATENT-APPL-SN-657997	c 60	N77-32731 *	US-PATENT-APPL-SN-672219	c 37	N80-28711 *
US-PATENT-APPL-SN-642765	c 76	N92-22040 *	US-PATENT-APPL-SN-657998	c 27	N78-32262 *	US-PATENT-APPL-SN-672219	c 37	N81-26447 *
US-PATENT-APPL-SN-643041	c 44	N78-19599 *	US-PATENT-APPL-SN-658132	c 44	N77-32580 *	US-PATENT-APPL-SN-672220	c 31	N78-17237 *
US-PATENT-APPL-SN-643043	c 35	N78-13400 *	US-PATENT-APPL-SN-658133	c 71	N78-10837 *	US-PATENT-APPL-SN-672221	c 07	N78-27121 *
US-PATENT-APPL-SN-643332	c 15	N71-14932 *	US-PATENT-APPL-SN-65840	c 10	N72-20225 *	US-PATENT-APPL-SN-672222	c 07	N78-25090 *
US-PATENT-APPL-SN-643522	c 16	N86-26352 *	US-PATENT-APPL-SN-658449	c 32	N77-20289 *	US-PATENT-APPL-SN-672223	c 51	N78-27733 *
US-PATENT-APPL-SN-643524	c 27	N86-29039 *	US-PATENT-APPL-SN-658450	c 37	N77-22482 *	US-PATENT-APPL-SN-672224	c 37	N86-25790 *
US-PATENT-APPL-SN-643589	c 27	N86-31727 *	US-PATENT-APPL-SN-658477	c 71	N92-10609 *	US-PATENT-APPL-SN-672382	c 15	N71-23815 *
US-PATENT-APPL-SN-643629	c 27	N92-34160 *	US-PATENT-APPL-SN-658487	c 37	N81-25371 *	US-PATENT-APPL-SN-672383	c 15	N71-24045 *
US-PATENT-APPL-SN-643897								

US-PATENT-APPL-SN-672695	c 27	N78-17206 *	US-PATENT-APPL-SN-684186	c 35	N88-29150 *	US-PATENT-APPL-SN-698279	c 37	N87-22976 *
US-PATENT-APPL-SN-672815	c 37	N77-23482 *	US-PATENT-APPL-SN-684190	c 54	N86-28619 *	US-PATENT-APPL-SN-698592	c 15	N71-18580 *
US-PATENT-APPL-SN-673226	c 08	N71-12502 *	US-PATENT-APPL-SN-684192	c 54	N86-28620 *	US-PATENT-APPL-SN-698629	c 09	N71-12516 *
US-PATENT-APPL-SN-673227	c 11	N71-24964 *	US-PATENT-APPL-SN-684193	c 54	N86-28630 *	US-PATENT-APPL-SN-698630	c 09	N71-24841 *
US-PATENT-APPL-SN-673228	c 07	N71-19433 *	US-PATENT-APPL-SN-684194	c 35	N85-20300 #	US-PATENT-APPL-SN-698641	c 74	N86-28732 *
US-PATENT-APPL-SN-673229	c 33	N71-15641 *	US-PATENT-APPL-SN-684209	c 10	N71-19418 *	US-PATENT-APPL-SN-698646	c 24	N78-15180 *
US-PATENT-APPL-SN-673685	c 60	N87-21591 *	US-PATENT-APPL-SN-684807	c 75	N78-27913 *	US-PATENT-APPL-SN-699002	c 32	N78-15323 *
US-PATENT-APPL-SN-674194	c 27	N78-17215 *	US-PATENT-APPL-SN-684894	c 17	N71-26773 *	US-PATENT-APPL-SN-699012	c 33	N78-27326 *
US-PATENT-APPL-SN-674195	c 74	N78-17866 *	US-PATENT-APPL-SN-685027	c 25	N78-10225 *	US-PATENT-APPL-SN-699130	c 27	N91-25298 #
US-PATENT-APPL-SN-674355	c 14	N71-20429 *	US-PATENT-APPL-SN-685062	c 35	N92-22038 *	US-PATENT-APPL-SN-699288	c 31	N92-32020 *
US-PATENT-APPL-SN-674356	c 14	N71-23699 *	US-PATENT-APPL-SN-685463	c 15	N71-23254 *	US-PATENT-APPL-SN-699289	c 36	N91-25392 *
US-PATENT-APPL-SN-674357	c 05	N71-12351 *	US-PATENT-APPL-SN-685473	c 17	N71-16044 *	US-PATENT-APPL-SN-699299	c 37	N91-32509 #
US-PATENT-APPL-SN-674395	c 76	N87-23286 *	US-PATENT-APPL-SN-685497	c 07	N69-39974 #	US-PATENT-APPL-SN-700040	c 18	N72-23581 *
US-PATENT-APPL-SN-674636	c 31	N91-25306 #	US-PATENT-APPL-SN-685607	c 37	N86-21850 *	US-PATENT-APPL-SN-700120	c 15	N71-20440 *
US-PATENT-APPL-SN-674700	c 27	N77-31308 *	US-PATENT-APPL-SN-685748	c 07	N71-11282 *	US-PATENT-APPL-SN-700142	c 21	N71-14159 *
US-PATENT-APPL-SN-674828	c 52	N92-33032 *	US-PATENT-APPL-SN-685750	c 27	N71-16392 *	US-PATENT-APPL-SN-700174	c 02	N71-20570 *
US-PATENT-APPL-SN-675238	c 10	N71-26374 *	US-PATENT-APPL-SN-685764	c 14	N69-27459 #	US-PATENT-APPL-SN-700255	c 33	N87-21234 *
US-PATENT-APPL-SN-675328	c 35	N78-15461 *	US-PATENT-APPL-SN-685766	c 15	N69-21924 #	US-PATENT-APPL-SN-700332	c 11	N73-12264 *
US-PATENT-APPL-SN-675351	c 35	N78-10429 *	US-PATENT-APPL-SN-685787	c 14	N71-18625 *	US-PATENT-APPL-SN-700379	c 74	N91-32924 #
US-PATENT-APPL-SN-675471	c 33	N90-20282 *	US-PATENT-APPL-SN-686209	c 15	N71-23809 *	US-PATENT-APPL-SN-700467	c 52	N79-14749 *
US-PATENT-APPL-SN-676012	c 05	N71-11193 *	US-PATENT-APPL-SN-686248	c 14	N71-26774 *	US-PATENT-APPL-SN-700541	c 10	N71-25139 *
US-PATENT-APPL-SN-676375	c 14	N71-18483 *	US-PATENT-APPL-SN-686263	c 39	N92-28757 *	US-PATENT-APPL-SN-700586	c 15	N71-19570 *
US-PATENT-APPL-SN-676386	c 08	N71-12507 *	US-PATENT-APPL-SN-686296	c 18	N71-14014 *	US-PATENT-APPL-SN-700673	c 39	N77-28511 *
US-PATENT-APPL-SN-676387	c 10	N71-25950 *	US-PATENT-APPL-SN-686331	c 38	N78-32447 *	US-PATENT-APPL-SN-700830	c 33	N92-10146 #
US-PATENT-APPL-SN-676391	c 21	N71-11766 *	US-PATENT-APPL-SN-686344	c 15	N71-17688 *	US-PATENT-APPL-SN-700984	c 11	N71-19494 *
US-PATENT-APPL-SN-676432	c 28	N78-24365 *	US-PATENT-APPL-SN-686449	c 34	N78-18355 *	US-PATENT-APPL-SN-700985	c 15	N69-23190 #
US-PATENT-APPL-SN-676432	c 28	N80-20402 *	US-PATENT-APPL-SN-686796	c 15	N70-33311 *	US-PATENT-APPL-SN-700986	c 12	N71-26387 *
US-PATENT-APPL-SN-676432	c 28	N81-14103 *	US-PATENT-APPL-SN-686933	c 14	N71-17588 *	US-PATENT-APPL-SN-700987	c 09	N71-19610 *
US-PATENT-APPL-SN-676433	c 52	N77-28716 *	US-PATENT-APPL-SN-686959	c 02	N88-14071 *	US-PATENT-APPL-SN-701244	c 05	N72-20096 *
US-PATENT-APPL-SN-676910	c 44	N92-29143 *	US-PATENT-APPL-SN-687251	c 52	N79-12694 *	US-PATENT-APPL-SN-701448	c 52	N78-10686 *
US-PATENT-APPL-SN-676957	c 32	N77-18307 *	US-PATENT-APPL-SN-687606	c 37	N92-29092 *	US-PATENT-APPL-SN-701486	c 31	N87-21159 *
US-PATENT-APPL-SN-676958	c 54	N76-22914 *	US-PATENT-APPL-SN-687822	c 44	N78-14625 *	US-PATENT-APPL-SN-701635	c 12	N71-17578 *
US-PATENT-APPL-SN-676958	c 52	N81-25661 *	US-PATENT-APPL-SN-688742	c 15	N71-20441 *	US-PATENT-APPL-SN-701654	c 03	N71-11049 *
US-PATENT-APPL-SN-677008	c 37	N92-21728 *	US-PATENT-APPL-SN-688743	c 15	N71-20393 *	US-PATENT-APPL-SN-701679	c 02	N71-19287 *
US-PATENT-APPL-SN-677182	c 33	N92-33030 *	US-PATENT-APPL-SN-688805	c 14	N71-17701 *	US-PATENT-APPL-SN-701679	c 07	N73-20174 *
US-PATENT-APPL-SN-67730	c 15	N73-13463 *	US-PATENT-APPL-SN-688807	c 03	N71-23239 *	US-PATENT-APPL-SN-701732	c 24	N71-16095 *
US-PATENT-APPL-SN-677351	c 35	N77-32455 *	US-PATENT-APPL-SN-688852	c 44	N78-28594 *	US-PATENT-APPL-SN-701733	c 10	N71-24844 *
US-PATENT-APPL-SN-677352	c 43	N78-10529 *	US-PATENT-APPL-SN-688854	c 54	N77-32722 *	US-PATENT-APPL-SN-701744	c 21	N71-13958 *
US-PATENT-APPL-SN-677353	c 52	N78-14773 *	US-PATENT-APPL-SN-688856	c 54	N78-32720 *	US-PATENT-APPL-SN-701767	c 07	N71-26101 *
US-PATENT-APPL-SN-677373	c 24	N92-18561 *	US-PATENT-APPL-SN-688868	c 15	N71-17686 *	US-PATENT-APPL-SN-702115	c 71	N79-14871 *
US-PATENT-APPL-SN-677475	c 32	N71-26681 *	US-PATENT-APPL-SN-689455	c 54	N74-32546 *	US-PATENT-APPL-SN-702396	c 31	N71-16345 *
US-PATENT-APPL-SN-677476	c 14	N71-17586 *	US-PATENT-APPL-SN-690163	c 14	N71-18465 *	US-PATENT-APPL-SN-702529	c 36	N91-28557 #
US-PATENT-APPL-SN-677505	c 09	N71-13521 *	US-PATENT-APPL-SN-690172	c 11	N72-22245 *	US-PATENT-APPL-SN-702911	c 15	N71-24875 *
US-PATENT-APPL-SN-677506	c 16	N71-15567 *	US-PATENT-APPL-SN-690198	c 35	N92-29097 *	US-PATENT-APPL-SN-702967	c 06	N71-24739 *
US-PATENT-APPL-SN-677508	c 16	N71-15551 *	US-PATENT-APPL-SN-690273	c 20	N87-14420 *	US-PATENT-APPL-SN-703107	c 37	N77-22479 *
US-PATENT-APPL-SN-67815	c 28	N72-22771 *	US-PATENT-APPL-SN-690274	c 05	N87-14314 *	US-PATENT-APPL-SN-703238	c 74	N92-11791 #
US-PATENT-APPL-SN-678520	c 20	N78-24275 *	US-PATENT-APPL-SN-690815	c 32	N77-24328 *	US-PATENT-APPL-SN-703649	c 34	N92-11286 #
US-PATENT-APPL-SN-678551	c 37	N92-33031 *	US-PATENT-APPL-SN-690816	c 37	N78-25426 *	US-PATENT-APPL-SN-703847	c 72	N86-33127 *
US-PATENT-APPL-SN-678553	c 14	N91-28184 #	US-PATENT-APPL-SN-690997	c 16	N71-24828 *	US-PATENT-APPL-SN-703905	c 32	N80-14281 *
US-PATENT-APPL-SN-678700	c 05	N71-19439 *	US-PATENT-APPL-SN-690998	c 30	N71-15990 *	US-PATENT-APPL-SN-704180	c 36	N78-27402 *
US-PATENT-APPL-SN-678780	c 09	N91-25155 #	US-PATENT-APPL-SN-691046	c 36	N77-25501 *	US-PATENT-APPL-SN-704224	c 18	N71-15469 *
US-PATENT-APPL-SN-678813	c 33	N81-29342 *	US-PATENT-APPL-SN-691256	c 35	N77-31465 *	US-PATENT-APPL-SN-704299	c 10	N71-26577 *
US-PATENT-APPL-SN-679055	c 08	N71-24633 *	US-PATENT-APPL-SN-691609	c 37	N92-29099 *	US-PATENT-APPL-SN-704420	c 05	N71-11202 *
US-PATENT-APPL-SN-679862	c 20	N71-16340 *	US-PATENT-APPL-SN-691610	c 18	N91-25167 #	US-PATENT-APPL-SN-704446	c 10	N71-33407 *
US-PATENT-APPL-SN-679885	c 09	N71-12521 *	US-PATENT-APPL-SN-691647	c 52	N82-11770 *	US-PATENT-APPL-SN-704465	c 07	N71-24741 *
US-PATENT-APPL-SN-679980	c 44	N82-24642 *	US-PATENT-APPL-SN-691735	c 09	N71-12520 *	US-PATENT-APPL-SN-704468	c 25	N79-28253 *
US-PATENT-APPL-SN-679987	c 44	N82-24644 *	US-PATENT-APPL-SN-691736	c 18	N71-16210 *	US-PATENT-APPL-SN-704668	c 10	N71-12554 *
US-PATENT-APPL-SN-679996	c 44	N82-24643 *	US-PATENT-APPL-SN-691737	c 07	N71-24742 *	US-PATENT-APPL-SN-705474	c 39	N92-11374 #
US-PATENT-APPL-SN-680015	c 52	N79-14750 *	US-PATENT-APPL-SN-691738	c 08	N71-18694 *	US-PATENT-APPL-SN-706013	c 33	N71-27862 *
US-PATENT-APPL-SN-680048	c 44	N82-24641 *	US-PATENT-APPL-SN-691739	c 32	N71-15974 *	US-PATENT-APPL-SN-706073	c 76	N79-11920 *
US-PATENT-APPL-SN-680067	c 07	N77-27116 *	US-PATENT-APPL-SN-691909	c 05	N71-24606 *	US-PATENT-APPL-SN-706424	c 27	N78-32256 *
US-PATENT-APPL-SN-68023	c 05	N72-33096 *	US-PATENT-APPL-SN-691936	c 26	N77-32279 *	US-PATENT-APPL-SN-706424	c 27	N80-10358 *
US-PATENT-APPL-SN-68024	c 17	N72-22535 *	US-PATENT-APPL-SN-69209	c 15	N72-21463 *	US-PATENT-APPL-SN-706424	c 27	N80-24438 *
US-PATENT-APPL-SN-680605	c 37	N91-14616 *	US-PATENT-APPL-SN-692284	c 27	N78-14164 *	US-PATENT-APPL-SN-706425	c 33	N78-10376 *
US-PATENT-APPL-SN-680938	c 74	N77-26942 *	US-PATENT-APPL-SN-692331	c 10	N71-26326 *	US-PATENT-APPL-SN-706564	c 14	N71-17587 *
US-PATENT-APPL-SN-680939	c 44	N78-10554 *	US-PATENT-APPL-SN-692332	c 07	N71-11281 *	US-PATENT-APPL-SN-706564	c 76	N87-15882 *
US-PATENT-APPL-SN-680957	c 35	N77-27366 *	US-PATENT-APPL-SN-692413	c 25	N78-25148 *	US-PATENT-APPL-SN-706565	c 76	N87-25862 *
US-PATENT-APPL-SN-680958	c 74	N78-18905 *	US-PATENT-APPL-SN-692414	c 37	N77-24331 *	US-PATENT-APPL-SN-706681	c 35	N86-32696 *
US-PATENT-APPL-SN-681000	c 34	N78-25350 *	US-PATENT-APPL-SN-692471	c 09	N71-12518 *	US-PATENT-APPL-SN-706682	c 24	N86-28131 *
US-PATENT-APPL-SN-681001	c 74	N76-22993 *	US-PATENT-APPL-SN-692636	c 27	N81-24258 *	US-PATENT-APPL-SN-707124	c 44	N77-22606 *
US-PATENT-APPL-SN-681017	c 44	N77-32583 *	US-PATENT-APPL-SN-692745	c 36	N87-17026 *	US-PATENT-APPL-SN-707125	c 39	N78-16387 *
US-PATENT-APPL-SN-681041	c 37	N86-27629 *	US-PATENT-APPL-SN-692801	c 37	N87-22977 *	US-PATENT-APPL-SN-707440	c 06	N73-30102 *
US-PATENT-APPL-SN-681096	c 44	N77-32582 *	US-PATENT-APPL-SN-692801	c 33	N92-16196 *	US-PATENT-APPL-SN-707495	c 11	N71-18773 *
US-PATENT-APPL-SN-681288	c 36	N92-16290 *	US-PATENT-APPL-SN-692802	c 37	N87-17034 *	US-PATENT-APPL-SN-708255	c 24	N91-25202 #
US-PATENT-APPL-SN-681687	c 03	N71-20273 *	US-PATENT-APPL-SN-692875	c 37	N86-20788 *	US-PATENT-APPL-SN-708658	c 33	N77-26385 *
US-PATENT-APPL-SN-681692	c 08	N71-12506 *	US-PATENT-APPL-SN-693049	c 74	N92-29158 *	US-PATENT-APPL-SN-708660	c 34	N78-27357 *
US-PATENT-APPL-SN-681693	c 09	N71-18598 *	US-PATENT-APPL-SN-693074	c 44	N78-24609 *	US-PATENT-APPL-SN-708771	c 26	N78-24333 *
US-PATENT-APPL-SN-681942	c 18	N71-15688 *	US-PATENT-APPL-SN-693419	c 31	N71-16222 *	US-PATENT-APPL-SN-708795	c 37	N77-28487 *
US-PATENT-APPL-SN-682151	c 28	N91-28444 #	US-PATENT-APPL-SN-693420	c 31	N71-16080 *	US-PATENT-APPL-SN-708796	c 36	N78-18410 *
US-PATENT-APPL-SN-682153	c 31	N91-28455 #	US-PATENT-APPL-SN-694246	c 15	N71-26673 *	US-PATENT-APPL-SN-708800	c 54	N78-17676 *
US-PATENT-APPL-SN-682160	c 27	N92-29090 *	US-PATENT-APPL-SN-694247	c 09	N69-21927 #	US-PATENT-APPL-SN-708951	c 27	N78-31232 *
US-PATENT-APPL-SN-682416	c 34	N77-24423 *	US-PATENT-APPL-SN-694317	c 12	N71-20436 *	US-PATENT-APPL-SN-709255	c 37	N86-32738 *
US-PATENT-APPL-SN-682435	c 27	N77-32308 *	US-PATENT-APPL-SN-694340	c 11	N71-17600 *	US-PATENT-APPL-SN-709257	c 32	N87-14559 *
US-PATENT-APPL-SN-683073	c 44	N81-29525 *	US-PATENT-APPL-SN-694345	c 10	N71-23669 *	US-PATENT-APPL-SN-709398	c 06	N71-13461 *
US-PATENT-APPL-SN-683073	c 44	N82-28780 *	US-PATENT-APPL-SN-694406	c 35	N79-10389 *	US-PATENT-APPL-SN-709399	c 16	N71-26154 *
US-PATENT-APPL-SN-683101	c 33	N87-21235 *	US-PATENT-APPL-SN-694407	c 27	N80-23452 *	US-PATENT-APPL-SN-709415	c 44	N78-27515 *
US-PATENT-APPL-SN-683111	c 33	N87-22894 *	US-PATENT-APPL-SN-694855	c 33	N77-30365 *	US-PATENT-APPL-SN-709622	c 33	N71-24858 *
US-PATENT-APPL-SN-683465	c 27	N82-29451 *	US-PATENT-APPL-SN-69488	c 23	N75-14834 *	US-PATENT-APPL-SN-70967	c 07	N73-13149 *
US-PATENT-APPL-SN-683507	c 15	N71-15609 *	US-PATENT-APPL-SN-695513	c 07	N78-25089 *	US-PATENT-APPL-SN-70967	c 32	N74-10132 *
US-PATENT-APPL-SN-683606	c 09	N71-24717 *	US-PATENT-APPL-SN-695973	c 05	N71-12343 *	US-PATENT-APPL-SN-709849	c 52	N77-25772 *
US-PATENT-APPL-SN-683612	c 01	N69-39981 #	US-PATENT-APPL-SN-696374	c 44	N80-29835 *	US-PATENT-APPL-SN-709907	c 20	N91-26200 #
US-PATENT-APPL-SN-683613	c 15	N71-15610 *	US-PATENT-APPL-SN-696679	c 38	N79-14398 *	US-PATENT-APPL-SN-710032	c 54	N77-30749 *
US-PATENT-APPL-SN-684045	c 07	N80-26298 *	US-PATENT-APPL-SN-696989	c 27	N77-30237 *	US-PATENT-APPL-SN-710035	c 44	N7

US-PATENT-APPL-SN-710424	c 36	N91-32489 *	#	US-PATENT-APPL-SN-725686	c 27	N87-15304 *	US-PATENT-APPL-SN-741749	c 52	N79-14751 *
US-PATENT-APPL-SN-71047	c 09	N72-21247 *		US-PATENT-APPL-SN-725689	c 37	N87-17037 *	US-PATENT-APPL-SN-741824	c 07	N71-12389 *
US-PATENT-APPL-SN-71048	c 18	N73-12604 *		US-PATENT-APPL-SN-725714	c 33	N89-14384 *	US-PATENT-APPL-SN-742034	c 33	N78-10377 *
US-PATENT-APPL-SN-710533	c 02	N71-11043 *		US-PATENT-APPL-SN-725719	c 15	N71-26243 *	US-PATENT-APPL-SN-742816	c 14	N71-17656 *
US-PATENT-APPL-SN-710561	c 09	N71-12517 *		US-PATENT-APPL-SN-725725	c 27	N87-16908 *	US-PATENT-APPL-SN-743238	c 02	N92-10008 *
US-PATENT-APPL-SN-710562	c 31	N71-16085 *		US-PATENT-APPL-SN-725727	c 27	N87-22845 *	US-PATENT-APPL-SN-743249	c 35	N77-32456 *
US-PATENT-APPL-SN-710621	c 06	N73-27086 *		US-PATENT-APPL-SN-726898	c 12	N71-17579 *	US-PATENT-APPL-SN-743429	c 07	N71-11285 *
US-PATENT-APPL-SN-710845	c 63	N91-28785 *	#	US-PATENT-APPL-SN-727034	c 35	N87-14669 *	US-PATENT-APPL-SN-743468	c 09	N91-32149 *
US-PATENT-APPL-SN-710945	c 33	N71-15568 *		US-PATENT-APPL-SN-727035	c 33	N86-32624 *	US-PATENT-APPL-SN-743469	c 16	N92-10035 *
US-PATENT-APPL-SN-710949	c 12	N71-17631 *		US-PATENT-APPL-SN-727444	c 31	N81-15154 *	US-PATENT-APPL-SN-743489	c 37	N92-11354 *
US-PATENT-APPL-SN-711898	c 18	N71-24934 *		US-PATENT-APPL-SN-727480	c 14	N71-17658 *	US-PATENT-APPL-SN-743525	c 07	N71-28430 *
US-PATENT-APPL-SN-711903	c 18	N71-26772 *		US-PATENT-APPL-SN-727503	c 08	N81-19130 *	US-PATENT-APPL-SN-744042	c 60	N92-17884 *
US-PATENT-APPL-SN-711921	c 18	N71-16105 *		US-PATENT-APPL-SN-727838	c 33	N86-20681 *	US-PATENT-APPL-SN-744118	c 37	N91-32510 *
US-PATENT-APPL-SN-711970	c 09	N71-18830 *		US-PATENT-APPL-SN-727931	c 33	N88-24862 *	US-PATENT-APPL-SN-744197	c 74	N91-32926 *
US-PATENT-APPL-SN-711971	c 09	N71-23598 *		US-PATENT-APPL-SN-728234	c 03	N71-12255 *	US-PATENT-APPL-SN-744477	c 33	N78-25319 *
US-PATENT-APPL-SN-711972	c 06	N71-24607 *		US-PATENT-APPL-SN-728369	c 52	N76-33835 *	US-PATENT-APPL-SN-744522	c 33	N77-21314 *
US-PATENT-APPL-SN-712065	c 08	N71-12503 *		US-PATENT-APPL-SN-728901	c 25	N92-19486 *	US-PATENT-APPL-SN-744573	c 44	N78-25531 *
US-PATENT-APPL-SN-712099	c 23	N71-24868 *		US-PATENT-APPL-SN-729107	c 75	N91-32947 *	US-PATENT-APPL-SN-744574	c 25	N78-14104 *
US-PATENT-APPL-SN-712270	c 52	N79-27836 *		US-PATENT-APPL-SN-729299	c 03	N72-15986 *	US-PATENT-APPL-SN-744577	c 35	N79-10391 *
US-PATENT-APPL-SN-712419	c 35	N78-14364 *		US-PATENT-APPL-SN-729704	c 37	N87-23983 *	US-PATENT-APPL-SN-744910	c 15	N71-17649 *
US-PATENT-APPL-SN-712658	c 07	N71-19773 *		US-PATENT-APPL-SN-729719	c 32	N87-25511 *	US-PATENT-APPL-SN-745337	c 28	N72-20758 *
US-PATENT-APPL-SN-712796	c 60	N91-32805 *	#	US-PATENT-APPL-SN-729766	c 09	N87-14355 *	US-PATENT-APPL-SN-745384	c 25	N79-11151 *
US-PATENT-APPL-SN-712981	c 31	N78-25256 *		US-PATENT-APPL-SN-729767	c 24	N87-27742 *	US-PATENT-APPL-SN-745766	c 37	N79-11403 *
US-PATENT-APPL-SN-713027	c 37	N79-10419 *		US-PATENT-APPL-SN-729768	c 72	N87-21660 *	US-PATENT-APPL-SN-745852	c 12	N71-17661 *
US-PATENT-APPL-SN-713162	c 06	N71-26754 *		US-PATENT-APPL-SN-730045	c 32	N78-24391 *	US-PATENT-APPL-SN-745973	c 36	N86-29204 *
US-PATENT-APPL-SN-713168	c 08	N71-33110 *		US-PATENT-APPL-SN-730046	c 35	N78-32396 *	US-PATENT-APPL-SN-745977	c 35	N87-14671 *
US-PATENT-APPL-SN-713449	c 74	N87-25843 *		US-PATENT-APPL-SN-730162	c 09	N71-18599 *	US-PATENT-APPL-SN-746160	c 37	N86-20797 *
US-PATENT-APPL-SN-713616	c 06	N71-27363 *		US-PATENT-APPL-SN-730468	c 25	N79-11152 *	US-PATENT-APPL-SN-746269	c 44	N78-25528 *
US-PATENT-APPL-SN-714051	c 33	N86-21742 *		US-PATENT-APPL-SN-730700	c 07	N71-24583 *	US-PATENT-APPL-SN-746578	c 12	N79-26075 *
US-PATENT-APPL-SN-714158	c 33	N78-13320 *		US-PATENT-APPL-SN-730701	c 12	N71-18615 *	US-PATENT-APPL-SN-746579	c 33	N81-27397 *
US-PATENT-APPL-SN-714296	c 14	N71-15604 *		US-PATENT-APPL-SN-730702	c 33	N71-16356 *	US-PATENT-APPL-SN-746580	c 34	N78-17335 *
US-PATENT-APPL-SN-714595	c 15	N71-17822 *		US-PATENT-APPL-SN-730703	c 10	N71-13537 *	US-PATENT-APPL-SN-746581	c 25	N92-12079 *
US-PATENT-APPL-SN-714814	c 37	N92-29120 *		US-PATENT-APPL-SN-730733	c 28	N71-16224 *	US-PATENT-APPL-SN-746809	c 35	N87-22953 *
US-PATENT-APPL-SN-715485	c 74	N78-14889 *		US-PATENT-APPL-SN-730734	c 15	N71-17654 *	US-PATENT-APPL-SN-747059	c 74	N91-32925 *
US-PATENT-APPL-SN-715975	c 06	N71-11240 *		US-PATENT-APPL-SN-730778	c 32	N79-10264 *	US-PATENT-APPL-SN-747152	c 35	N92-11336 *
US-PATENT-APPL-SN-716150	c 32	N92-10126 *	#	US-PATENT-APPL-SN-731388	c 15	N71-24835 *	US-PATENT-APPL-SN-74759	c 14	N73-20478 *
US-PATENT-APPL-SN-716182	c 53	N91-28730 *	#	US-PATENT-APPL-SN-731829	c 16	N91-28186 *	US-PATENT-APPL-SN-747674	c 27	N80-26446 *
US-PATENT-APPL-SN-716183	c 15	N71-18132 *		US-PATENT-APPL-SN-732321	c 33	N87-28832 *	US-PATENT-APPL-SN-747675	c 37	N78-31426 *
US-PATENT-APPL-SN-716734	c 15	N71-17628 *		US-PATENT-APPL-SN-732455	c 22	N71-28759 *	US-PATENT-APPL-SN-748224	c 34	N92-17909 *
US-PATENT-APPL-SN-716795	c 14	N71-20435 *		US-PATENT-APPL-SN-732630	c 36	N78-14380 *	US-PATENT-APPL-SN-748536	c 33	N86-20680 *
US-PATENT-APPL-SN-716885	c 74	N78-33913 *		US-PATENT-APPL-SN-732833	c 15	N72-28495 *	US-PATENT-APPL-SN-74861	c 27	N72-25699 *
US-PATENT-APPL-SN-717052	c 14	N71-17626 *		US-PATENT-APPL-SN-732884	c 27	N92-28751 *	US-PATENT-APPL-SN-74862	c 27	N73-16764 *
US-PATENT-APPL-SN-717319	c 44	N77-31601 *		US-PATENT-APPL-SN-732917	c 14	N71-17575 *	US-PATENT-APPL-SN-748933	c 25	N91-23271 *
US-PATENT-APPL-SN-717320	c 44	N78-15560 *		US-PATENT-APPL-SN-732921	c 10	N71-26544 *	US-PATENT-APPL-SN-749121	c 07	N72-11149 *
US-PATENT-APPL-SN-717447	c 76	N91-26968 *	#	US-PATENT-APPL-SN-732922	c 17	N71-28747 *	US-PATENT-APPL-SN-749148	c 10	N71-19421 *
US-PATENT-APPL-SN-717755	c 39	N92-34174 *		US-PATENT-APPL-SN-733039	c 07	N72-12081 *	US-PATENT-APPL-SN-749149	c 15	N71-24897 *
US-PATENT-APPL-SN-717822	c 09	N71-25866 *		US-PATENT-APPL-SN-73310	c 09	N72-25247 *	US-PATENT-APPL-SN-749181	c 09	N71-24803 *
US-PATENT-APPL-SN-718046	c 26	N92-29094 *		US-PATENT-APPL-SN-73367	c 14	N71-15969 *	US-PATENT-APPL-SN-749320	c 14	N72-22443 *
US-PATENT-APPL-SN-718095	c 28	N70-39899 *		US-PATENT-APPL-SN-733825	c 31	N79-11246 *	US-PATENT-APPL-SN-749420	c 04	N82-16059 *
US-PATENT-APPL-SN-718137	c 44	N78-31527 *		US-PATENT-APPL-SN-73422	c 15	N72-25454 *	US-PATENT-APPL-SN-749548	c 10	N71-33129 *
US-PATENT-APPL-SN-718244	c 05	N78-32086 *		US-PATENT-APPL-SN-734366	c 27	N87-22847 *	US-PATENT-APPL-SN-749737	c 35	N92-10182 *
US-PATENT-APPL-SN-718266	c 74	N78-17867 *		US-PATENT-APPL-SN-734805	c 14	N70-34816 *	US-PATENT-APPL-SN-749819	c 61	N92-17860 *
US-PATENT-APPL-SN-718267	c 26	N77-29260 *		US-PATENT-APPL-SN-734901	c 27	N78-17205 *	US-PATENT-APPL-SN-750031	c 05	N73-32012 *
US-PATENT-APPL-SN-718268	c 44	N78-33526 *		US-PATENT-APPL-SN-734902	c 24	N78-14096 *	US-PATENT-APPL-SN-750158	c 27	N92-11200 *
US-PATENT-APPL-SN-718279	c 15	N71-26312 *		US-PATENT-APPL-SN-735149	c 37	N92-34173 *	US-PATENT-APPL-SN-750235	c 25	N75-14844 *
US-PATENT-APPL-SN-718313	c 02	N92-34172 *		US-PATENT-APPL-SN-735458	c 24	N91-28289 *	US-PATENT-APPL-SN-750655	c 74	N78-32854 *
US-PATENT-APPL-SN-718314	c 76	N91-26967 *	#	US-PATENT-APPL-SN-735911	c 14	N70-41946 *	US-PATENT-APPL-SN-750786	c 07	N71-27341 *
US-PATENT-APPL-SN-718315	c 76	N91-26966 *	#	US-PATENT-APPL-SN-736145	c 34	N92-29125 *	US-PATENT-APPL-SN-750787	c 10	N71-27126 *
US-PATENT-APPL-SN-718689	c 14	N71-17655 *		US-PATENT-APPL-SN-736286	c 32	N79-11265 *	US-PATENT-APPL-SN-750792	c 37	N79-11402 *
US-PATENT-APPL-SN-718752	c 03	N71-18698 *		US-PATENT-APPL-SN-736667	c 27	N92-12121 *	US-PATENT-APPL-SN-750798	c 85	N79-17747 *
US-PATENT-APPL-SN-718769	c 14	N71-17662 *		US-PATENT-APPL-SN-736848	c 23	N71-16212 *	US-PATENT-APPL-SN-751061	c 18	N71-29040 *
US-PATENT-APPL-SN-718798	c 76	N91-15898 *		US-PATENT-APPL-SN-736880	c 27	N92-11201 *	US-PATENT-APPL-SN-751198	c 03	N71-24718 *
US-PATENT-APPL-SN-719029	c 14	N71-27186 *		US-PATENT-APPL-SN-736909	c 37	N79-11404 *	US-PATENT-APPL-SN-751215	c 22	N72-20597 *
US-PATENT-APPL-SN-719173	c 28	N70-33331 *		US-PATENT-APPL-SN-736910	c 27	N78-32260 *	US-PATENT-APPL-SN-751266	c 15	N71-33518 *
US-PATENT-APPL-SN-719794	c 35	N86-32695 *	#	US-PATENT-APPL-SN-736985	c 25	N92-30098 *	US-PATENT-APPL-SN-751440	c 36	N92-17899 *
US-PATENT-APPL-SN-719796	c 24	N86-21590 *		US-PATENT-APPL-SN-737018	c 37	N86-20801 *	US-PATENT-APPL-SN-751489	c 38	N92-17859 *
US-PATENT-APPL-SN-719799	c 35	N86-25752 *		US-PATENT-APPL-SN-737974	c 33	N78-18308 *	US-PATENT-APPL-SN-751644	c 85	N87-21755 *
US-PATENT-APPL-SN-719869	c 31	N71-15676 *		US-PATENT-APPL-SN-737975	c 32	N84-27952 *	US-PATENT-APPL-SN-751691	c 37	N87-21332 *
US-PATENT-APPL-SN-719870	c 07	N71-26292 *		US-PATENT-APPL-SN-738119	c 18	N71-15545 *	US-PATENT-APPL-SN-751695	c 71	N87-21652 *
US-PATENT-APPL-SN-720041	c 05	N71-27234 *		US-PATENT-APPL-SN-738218	c 37	N78-27425 *	US-PATENT-APPL-SN-752050	c 07	N81-19115 *
US-PATENT-APPL-SN-720125	c 09	N71-12539 *		US-PATENT-APPL-SN-738314	c 12	N71-17573 *	US-PATENT-APPL-SN-752246	c 27	N92-17676 *
US-PATENT-APPL-SN-720133	c 27	N91-28423 *	#	US-PATENT-APPL-SN-738315	c 14	N71-27334 *	US-PATENT-APPL-SN-752729	c 09	N71-26787 *
US-PATENT-APPL-SN-720153	c 39	N92-11384 *	#	US-PATENT-APPL-SN-738315	c 14	N72-31446 *	US-PATENT-APPL-SN-752748	c 35	N78-25391 *
US-PATENT-APPL-SN-72024	c 09	N73-12211 *		US-PATENT-APPL-SN-73834	c 15	N72-23497 *	US-PATENT-APPL-SN-752946	c 15	N71-29032 *
US-PATENT-APPL-SN-720521	c 44	N78-25530 *		US-PATENT-APPL-SN-738931	c 35	N86-20756 *	US-PATENT-APPL-SN-752947	c 31	N71-15689 *
US-PATENT-APPL-SN-720546	c 18	N72-17532 *		US-PATENT-APPL-SN-739072	c 33	N75-27251 *	US-PATENT-APPL-SN-753103	c 37	N80-14397 *
US-PATENT-APPL-SN-721038	c 27	N91-28424 *	#	US-PATENT-APPL-SN-73922	c 14	N73-25461 *	US-PATENT-APPL-SN-753452	c 07	N79-14096 *
US-PATENT-APPL-SN-721039	c 09	N91-28175 *	#	US-PATENT-APPL-SN-73932	c 15	N72-22485 *	US-PATENT-APPL-SN-753964	c 24	N78-27180 *
US-PATENT-APPL-SN-721150	c 37	N78-17383 *		US-PATENT-APPL-SN-739391	c 09	N72-17156 *	US-PATENT-APPL-SN-753965	c 54	N78-31735 *
US-PATENT-APPL-SN-721607	c 18	N71-25681 *		US-PATENT-APPL-SN-739760	c 27	N86-31726 *	US-PATENT-APPL-SN-753965	c 54	N79-24651 *
US-PATENT-APPL-SN-722446	c 20	N91-32167 *	#	US-PATENT-APPL-SN-739788	c 37	N88-14360 *	US-PATENT-APPL-SN-753971	c 71	N84-14873 *
US-PATENT-APPL-SN-723264	c 24	N78-10214 *		US-PATENT-APPL-SN-739789	c 34	N85-29182 *	US-PATENT-APPL-SN-753974	c 16	N71-33410 *
US-PATENT-APPL-SN-723264	c 24	N78-17149 *		US-PATENT-APPL-SN-739792	c 33	N87-28833 *	US-PATENT-APPL-SN-753976	c 54	N78-17675 *
US-PATENT-APPL-SN-723465	c 15	N72-29488 *		US-PATENT-APPL-SN-739908	c 15	N78-25119 *	US-PATENT-APPL-SN-753977	c 74	N79-12890 *
US-PATENT-APPL-SN-723465	c 37	N74-15125 *		US-PATENT-APPL-SN-739909	c 37	N78-24545 *	US-PATENT-APPL-SN-753978	c 54	N78-32721 *
US-PATENT-APPL-SN-723476	c 05	N71-12341 *		US-PATENT-APPL-SN-739914	c 33	N78-10375 *	US-PATENT-APPL-SN-754019	c 09	N71-25999 *
US-PATENT-APPL-SN-723488	c 09	N71-28691 *		US-PATENT-APPL-SN-739915	c 37	N78-24544 *	US-PATENT-APPL-SN-754020	c 12	N71-27332 *
US-PATENT-APPL-SN-723804	c 09	N71-24806 *		US-PATENT-APPL-SN-739927	c 32	N71-16103 *	US-PATENT-APPL-SN-754055	c 07	N71-24624 *
US-PATENT-APPL-SN-723805	c 10	N71-26339 *		US-PATENT-APPL-SN-740153	c 28	N79-11231 *	US-PATENT-APPL-SN-754066	c 39	N78-15512 *
US-PATENT-APPL-SN-723827	c 10	N71-27137 *		US-PATENT-APPL-SN-740155	c 74	N78-27904 *	US-PATENT-APPL-SN-754331	c 21	N72-31637 *
US-PATENT-APPL-SN-724551	c 15	N71-17696 *		US-PATENT-APPL-SN-740156	c 71	N78-14867 *	US-PATENT-APPL-SN-754362	c 27	N87-21

US-PATENT-APPL-SN-755288	c 34	N88-23958 *	US-PATENT-APPL-SN-766244	c 15	N71-26721 *	US-PATENT-APPL-SN-779160	c 14	N72-16282 *
US-PATENT-APPL-SN-755310	c 25	N78-15210 *	US-PATENT-APPL-SN-766245	c 14	N71-27215 *	US-PATENT-APPL-SN-779169	c 09	N71-28618 *
US-PATENT-APPL-SN-755323	c 74	N79-11865 *	US-PATENT-APPL-SN-766593	c 44	N92-10222 *	US-PATENT-APPL-SN-779415	c 60	N79-20751 *
US-PATENT-APPL-SN-755960	c 31	N88-29052 *	US-PATENT-APPL-SN-766597	c 31	N92-11219 *	US-PATENT-APPL-SN-779428	c 34	N78-25351 *
US-PATENT-APPL-SN-756260	c 23	N71-26722 *	US-PATENT-APPL-SN-766609	c 31	N92-11220 *	US-PATENT-APPL-SN-779429	c 08	N79-14108 *
US-PATENT-APPL-SN-756266	c 15	N71-26145 *	US-PATENT-APPL-SN-766697	c 09	N71-33519 *	US-PATENT-APPL-SN-779744	c 74	N87-23259 *
US-PATENT-APPL-SN-756381	c 06	N71-25929 *	US-PATENT-APPL-SN-7668	c 15	N71-26611 *	US-PATENT-APPL-SN-779847	c 15	N71-27091 *
US-PATENT-APPL-SN-756511	c 09	N71-27016 *	US-PATENT-APPL-SN-766999	c 33	N80-23559 *	US-PATENT-APPL-SN-779871	c 33	N79-20314 *
US-PATENT-APPL-SN-756834	c 15	N72-21466 *	US-PATENT-APPL-SN-7669	c 31	N72-18859 *	US-PATENT-APPL-SN-779883	c 27	N79-18052 *
US-PATENT-APPL-SN-757017	c 35	N77-21393 *	US-PATENT-APPL-SN-767741	c 09	N72-27228 *	US-PATENT-APPL-SN-780064	c 15	N71-27372 *
US-PATENT-APPL-SN-757625	c 09	N71-26701 *	US-PATENT-APPL-SN-767911	c 09	N78-31129 *	US-PATENT-APPL-SN-780065	c 12	N71-28741 *
US-PATENT-APPL-SN-757857	c 10	N71-25900 *	US-PATENT-APPL-SN-767912	c 27	N79-14214 *	US-PATENT-APPL-SN-780512	c 37	N92-17872 *
US-PATENT-APPL-SN-757861	c 05	N71-11194 *	US-PATENT-APPL-SN-768336	c 15	N71-17648 *	US-PATENT-APPL-SN-780513	c 74	N92-17863 *
US-PATENT-APPL-SN-757875	c 09	N71-24805 *	US-PATENT-APPL-SN-768470	c 09	N71-28421 *	US-PATENT-APPL-SN-780569	c 54	N78-31736 *
US-PATENT-APPL-SN-758082	c 15	N71-17805 *	US-PATENT-APPL-SN-768473	c 14	N71-17657 *	US-PATENT-APPL-SN-78065	c 08	N72-22162 *
US-PATENT-APPL-SN-758390	c 28	N71-26642 *	US-PATENT-APPL-SN-768662	c 07	N73-25160 *	US-PATENT-APPL-SN-780728	c 32	N78-31321 *
US-PATENT-APPL-SN-758540	c 28	N73-27699 *	US-PATENT-APPL-SN-768795	c 33	N79-10339 *	US-PATENT-APPL-SN-780729	c 33	N79-22373 *
US-PATENT-APPL-SN-758721	c 52	N79-18580 *	US-PATENT-APPL-SN-768942	c 46	N74-23068 *	US-PATENT-APPL-SN-780873	c 32	N81-27341 *
US-PATENT-APPL-SN-758942	c 27	N71-14090 *	US-PATENT-APPL-SN-76899	c 09	N72-22201 *	US-PATENT-APPL-SN-780874	c 35	N78-28411 *
US-PATENT-APPL-SN-758977	c 38	N92-29154 *	US-PATENT-APPL-SN-769148	c 52	N79-10724 *	US-PATENT-APPL-SN-780938	c 54	N80-10799 *
US-PATENT-APPL-SN-759220	c 27	N78-17214 *	US-PATENT-APPL-SN-769149	c 33	N78-32339 *	US-PATENT-APPL-SN-781520	c 31	N92-17674 *
US-PATENT-APPL-SN-759256	c 07	N71-27233 *	US-PATENT-APPL-SN-769592	c 15	N72-16330 *	US-PATENT-APPL-SN-781521	c 33	N92-17865 *
US-PATENT-APPL-SN-759367	c 37	N92-29150 *	US-PATENT-APPL-SN-769665	c 15	N72-11387 *	US-PATENT-APPL-SN-781625	c 18	N92-24244 *
US-PATENT-APPL-SN-759457	c 33	N71-16357 *	US-PATENT-APPL-SN-769788	c 07	N71-11300 *	US-PATENT-APPL-SN-781812	c 36	N87-23960 *
US-PATENT-APPL-SN-759460	c 09	N71-24597 *	US-PATENT-APPL-SN-770203	c 05	N71-11195 *	US-PATENT-APPL-SN-781813	c 27	N87-14516 *
US-PATENT-APPL-SN-759665	c 14	N71-18481 *	US-PATENT-APPL-SN-770209	c 08	N71-27057 *	US-PATENT-APPL-SN-782009	c 36	N92-17862 *
US-PATENT-APPL-SN-759665	c 52	N79-26771 *	US-PATENT-APPL-SN-770371	c 15	N71-24599 *	US-PATENT-APPL-SN-782462	c 33	N79-17133 *
US-PATENT-APPL-SN-760057	c 44	N79-14527 *	US-PATENT-APPL-SN-770398	c 06	N71-27254 *	US-PATENT-APPL-SN-782463	c 72	N79-13826 *
US-PATENT-APPL-SN-760114	c 28	N72-11709 *	US-PATENT-APPL-SN-770398	c 06	N72-27144 *	US-PATENT-APPL-SN-782464	c 32	N79-14267 *
US-PATENT-APPL-SN-760374	c 27	N87-16909 *	US-PATENT-APPL-SN-770417	c 06	N73-33076 *	US-PATENT-APPL-SN-782480	c 33	N78-32340 *
US-PATENT-APPL-SN-760374	c 23	N88-24692 *	US-PATENT-APPL-SN-770425	c 06	N72-20121 *	US-PATENT-APPL-SN-782481	c 44	N78-32542 *
US-PATENT-APPL-SN-760378	c 37	N86-32737 *	US-PATENT-APPL-SN-770509	c 37	N92-30097 *	US-PATENT-APPL-SN-782482	c 33	N79-11315 *
US-PATENT-APPL-SN-760389	c 09	N71-24618 *	US-PATENT-APPL-SN-770869	c 44	N78-25527 *	US-PATENT-APPL-SN-782544	c 14	N71-27325 *
US-PATENT-APPL-SN-760633	c 52	N92-11627 *	US-PATENT-APPL-SN-770920	c 37	N86-32736 *	US-PATENT-APPL-SN-782693	c 33	N79-10337 *
US-PATENT-APPL-SN-760634	c 37	N92-24243 *	US-PATENT-APPL-SN-771216	c 14	N72-17329 *	US-PATENT-APPL-SN-782955	c 07	N71-33108 *
US-PATENT-APPL-SN-760670	c 27	N92-11186 *	US-PATENT-APPL-SN-771245	c 27	N81-14076 *	US-PATENT-APPL-SN-782956	c 10	N71-25865 *
US-PATENT-APPL-SN-760771	c 44	N79-14528 *	US-PATENT-APPL-SN-771523	c 10	N71-18772 *	US-PATENT-APPL-SN-783374	c 15	N71-27147 *
US-PATENT-APPL-SN-760790	c 36	N87-28006 *	US-PATENT-APPL-SN-771530	c 09	N72-12136 *	US-PATENT-APPL-SN-783375	c 07	N71-24621 *
US-PATENT-APPL-SN-760791	c 27	N87-14515 *	US-PATENT-APPL-SN-771537	c 37	N87-23981 *	US-PATENT-APPL-SN-783377	c 05	N71-28619 *
US-PATENT-APPL-SN-760797	c 27	N87-16907 *	US-PATENT-APPL-SN-771537	c 35	N91-21494 *	US-PATENT-APPL-SN-783378	c 07	N71-19436 *
US-PATENT-APPL-SN-760799	c 54	N87-29118 *	US-PATENT-APPL-SN-771538	c 24	N86-25416 *	US-PATENT-APPL-SN-783379	c 15	N71-17653 *
US-PATENT-APPL-SN-760809	c 24	N78-24290 *	US-PATENT-APPL-SN-77169	c 14	N72-21408 *	US-PATENT-APPL-SN-783886	c 37	N87-17035 *
US-PATENT-APPL-SN-760810	c 26	N78-32229 *	US-PATENT-APPL-SN-771759	c 09	N71-29008 *	US-PATENT-APPL-SN-783887	c 36	N87-25567 *
US-PATENT-APPL-SN-760819	c 14	N70-34820 *	US-PATENT-APPL-SN-771760	c 10	N71-25917 *	US-PATENT-APPL-SN-783888	c 37	N87-25582 *
US-PATENT-APPL-SN-760927	c 26	N71-25490 *	US-PATENT-APPL-SN-771803	c 07	N71-12391 *	US-PATENT-APPL-SN-783890	c 74	N87-17493 *
US-PATENT-APPL-SN-760928	c 15	N71-28582 *	US-PATENT-APPL-SN-771937	c 10	N71-24862 *	US-PATENT-APPL-SN-783890	c 74	N87-25843 *
US-PATENT-APPL-SN-761007	c 18	N71-26155 *	US-PATENT-APPL-SN-772006	c 17	N71-33408 *	US-PATENT-APPL-SN-784055	c 15	N72-11390 *
US-PATENT-APPL-SN-761235	c 27	N86-32569 *	US-PATENT-APPL-SN-772165	c 74	N79-13855 *	US-PATENT-APPL-SN-784521	c 14	N71-15620 *
US-PATENT-APPL-SN-761252	c 27	N80-32515 *	US-PATENT-APPL-SN-772167	c 25	N79-22235 *	US-PATENT-APPL-SN-784544	c 15	N72-12408 *
US-PATENT-APPL-SN-761310	c 25	N88-23846 *	US-PATENT-APPL-SN-772168	c 37	N79-20377 *	US-PATENT-APPL-SN-785078	c 03	N72-27053 *
US-PATENT-APPL-SN-761404	c 09	N71-12526 *	US-PATENT-APPL-SN-772181	c 27	N91-32230 *	US-PATENT-APPL-SN-785257	c 44	N79-14526 *
US-PATENT-APPL-SN-761566	c 61	N92-10331 *	US-PATENT-APPL-SN-772200	c 37	N92-23377 *	US-PATENT-APPL-SN-785279	c 27	N81-14077 *
US-PATENT-APPL-SN-762362	c 44	N79-24433 *	US-PATENT-APPL-SN-77220	c 14	N72-27409 *	US-PATENT-APPL-SN-785546	c 10	N71-25882 *
US-PATENT-APPL-SN-762363	c 44	N79-24432 *	US-PATENT-APPL-SN-77221	c 08	N72-25210 *	US-PATENT-APPL-SN-785595	c 10	N71-24861 *
US-PATENT-APPL-SN-762438	c 12	N71-17569 *	US-PATENT-APPL-SN-772434	c 52	N80-14687 *	US-PATENT-APPL-SN-785611	c 15	N71-24600 *
US-PATENT-APPL-SN-762935	c 14	N71-29041 *	US-PATENT-APPL-SN-77251	c 25	N70-41628 *	US-PATENT-APPL-SN-785613	c 05	N72-25119 *
US-PATENT-APPL-SN-762936	c 31	N69-27499 *	US-PATENT-APPL-SN-77252	c 02	N70-37939 *	US-PATENT-APPL-SN-785615	c 05	N72-20098 *
US-PATENT-APPL-SN-762956	c 14	N71-26627 *	US-PATENT-APPL-SN-77256	c 15	N70-33323 *	US-PATENT-APPL-SN-785620	c 21	N71-27324 *
US-PATENT-APPL-SN-762957	c 08	N71-27210 *	US-PATENT-APPL-SN-772741	c 33	N92-23462 *	US-PATENT-APPL-SN-785637	c 37	N92-30082 *
US-PATENT-APPL-SN-763040	c 14	N72-28438 *	US-PATENT-APPL-SN-772763	c 31	N92-33612 *	US-PATENT-APPL-SN-785710	c 05	N71-24730 *
US-PATENT-APPL-SN-763355	c 06	N71-28620 *	US-PATENT-APPL-SN-773029	c 09	N71-24893 *	US-PATENT-APPL-SN-785780	c 18	N71-28729 *
US-PATENT-APPL-SN-763684	c 15	N72-16329 *	US-PATENT-APPL-SN-773072	c 10	N72-28241 *	US-PATENT-APPL-SN-786322	c 32	N79-20296 *
US-PATENT-APPL-SN-763685	c 15	N71-24910 *	US-PATENT-APPL-SN-773376	c 33	N92-33021 *	US-PATENT-APPL-SN-786499	c 63	N92-17895 *
US-PATENT-APPL-SN-763705	c 09	N71-18720 *	US-PATENT-APPL-SN-773530	c 25	N75-29192 *	US-PATENT-APPL-SN-786612	c 29	N92-30083 *
US-PATENT-APPL-SN-763706	c 15	N71-24896 *	US-PATENT-APPL-SN-774151	c 15	N71-17692 *	US-PATENT-APPL-SN-786618	c 74	N92-17892 *
US-PATENT-APPL-SN-763729	c 12	N71-26546 *	US-PATENT-APPL-SN-774265	c 10	N71-27365 *	US-PATENT-APPL-SN-7867	c 14	N72-17324 *
US-PATENT-APPL-SN-763743	c 14	N72-21409 *	US-PATENT-APPL-SN-774266	c 15	N71-26185 *	US-PATENT-APPL-SN-7868	c 10	N72-17173 *
US-PATENT-APPL-SN-763744	c 10	N72-27246 *	US-PATENT-APPL-SN-774384	c 32	N79-10262 *	US-PATENT-APPL-SN-786913	c 27	N79-12221 *
US-PATENT-APPL-SN-763753	c 43	N78-14452 *	US-PATENT-APPL-SN-774691	c 10	N72-31273 *	US-PATENT-APPL-SN-78703	c 15	N73-20514 *
US-PATENT-APPL-SN-763868	c 15	N71-24679 *	US-PATENT-APPL-SN-774733	c 14	N72-24477 *	US-PATENT-APPL-SN-78704	c 05	N72-25121 *
US-PATENT-APPL-SN-763869	c 17	N71-16393 *	US-PATENT-APPL-SN-775072	c 16	N71-24831 *	US-PATENT-APPL-SN-78717	c 05	N73-13114 *
US-PATENT-APPL-SN-764245	c 24	N80-33482 *	US-PATENT-APPL-SN-775239	c 37	N79-14382 *	US-PATENT-APPL-SN-787393	c 23	N71-26206 *
US-PATENT-APPL-SN-764252	c 14	N71-25901 *	US-PATENT-APPL-SN-775404	c 54	N92-17910 *	US-PATENT-APPL-SN-787410	c 15	N71-19213 *
US-PATENT-APPL-SN-764470	c 16	N71-28554 *	US-PATENT-APPL-SN-775548	c 33	N87-21233 *	US-PATENT-APPL-SN-78766	c 05	N74-10907 *
US-PATENT-APPL-SN-764805	c 37	N87-17036 *	US-PATENT-APPL-SN-775870	c 09	N71-24800 *	US-PATENT-APPL-SN-787846	c 23	N71-33229 *
US-PATENT-APPL-SN-764812	c 10	N71-19468 *	US-PATENT-APPL-SN-775870	c 09	N72-22196 *	US-PATENT-APPL-SN-787906	c 03	N71-26084 *
US-PATENT-APPL-SN-764812	c 76	N88-24543 *	US-PATENT-APPL-SN-775877	c 02	N71-11039 *	US-PATENT-APPL-SN-787911	c 03	N71-28579 *
US-PATENT-APPL-SN-764823	c 33	N78-17296 *	US-PATENT-APPL-SN-775966	c 02	N71-11037 *	US-PATENT-APPL-SN-787993	c 44	N92-23463 *
US-PATENT-APPL-SN-765069	c 37	N92-24058 *	US-PATENT-APPL-SN-775968	c 31	N87-21160 *	US-PATENT-APPL-SN-788045	c 24	N79-25142 *
US-PATENT-APPL-SN-765070	c 35	N92-33614 *	US-PATENT-APPL-SN-775989	c 71	N87-21653 *	US-PATENT-APPL-SN-788705	c 35	N78-24515 *
US-PATENT-APPL-SN-765123	c 31	N71-15687 *	US-PATENT-APPL-SN-775990	c 17	N87-25348 *	US-PATENT-APPL-SN-788908	c 08	N92-30025 *
US-PATENT-APPL-SN-765138	c 44	N79-10513 *	US-PATENT-APPL-SN-776029	c 07	N79-10057 *	US-PATENT-APPL-SN-789043	c 10	N71-26531 *
US-PATENT-APPL-SN-765139	c 44	N78-31526 *	US-PATENT-APPL-SN-776146	c 44	N79-17313 *	US-PATENT-APPL-SN-789044	c 14	N72-20381 *
US-PATENT-APPL-SN-765165	c 32	N79-11264 *	US-PATENT-APPL-SN-776146	c 25	N82-21268 *	US-PATENT-APPL-SN-789045	c 15	N72-22489 *
US-PATENT-APPL-SN-765167	c 32	N79-10263 *	US-PATENT-APPL-SN-776185	c 03	N72-22041 *	US-PATENT-APPL-SN-789266	c 71	N88-24241 *
US-PATENT-APPL-SN-765264	c 02	N71-29128 *	US-PATENT-APPL-SN-777764	c 15	N71-27214 *	US-PATENT-APPL-SN-789278	c 15	N71-24694 *
US-PATENT-APPL-SN-765273	c 54	N92-21589 *	US-PATENT-APPL-SN-777765	c 15	N71-29018 *	US-PATENT-APPL-SN-789567	c 63	N92-29955 *
US-PATENT-APPL-SN-765615	c 52	N92-11628 *	US-PATENT-APPL-SN-777765	c 14	N73-28487 *	US-PATENT-APPL-SN-789903	c 07	N71-28429 *
US-PATENT-APPL-SN-765738	c 03	N71-11057 *	US-PATENT-APPL-SN-777766	c 31	N71-16221 *	US-PATENT-APPL-SN-790420	c 09	N71-24595 *
US-PATENT-APPL-SN-765978	c 37	N87-21334 *	US-PATENT-APPL-SN-777818	c 09	N71-27364 *	US-PATENT-APPL-SN-790556	c 08	N87-20999 *
US-PATENT-APPL-SN-765979	c 89	N86-22459 *	US-PATENT-APPL-SN-77786	c 14	N72-27412 *	US-PATENT-APPL-SN-790594	c 36	N87-23961 *
US-PATENT-APPL-SN-765979	c 89	N92-33012 *	US-PATENT-APPL-SN-777983	c 32	N79-24210 *	US-PATENT-APPL-SN-790596	c 35	N88-24927 *
US-PATENT-APPL-SN-765980	c 27	N86-27451 *	US-PATENT-APPL-SN-778195	c 24	N79-16915 *	US-PATENT-APPL-SN-790597	c 37	N88-14359 *
US-PATENT-APPL-SN-765981	c 74	N87-28416 *	US-PATENT-APPL-SN-77869	c 37	N79-21345 *	US-PATENT-APPL-SN-790637	c 44	N

US-PATENT-APPL-SN-790731	c 32	N92-31150 *	US-PATENT-APPL-SN-804196	c 33	N87-28831 *	US-PATENT-APPL-SN-822088	c 15	N71-27135 *
US-PATENT-APPL-SN-791267	c 23	N72-17747 *	US-PATENT-APPL-SN-805010	c 35	N87-23944 *	US-PATENT-APPL-SN-822089	c 23	N72-23695 *
US-PATENT-APPL-SN-791268	c 33	N72-17947 *	US-PATENT-APPL-SN-805011	c 34	N88-24163 *	US-PATENT-APPL-SN-822090	c 16	N71-27183 *
US-PATENT-APPL-SN-791288	c 28	N71-25213 *	US-PATENT-APPL-SN-805012	c 27	N87-21111 *	US-PATENT-APPL-SN-822240	c 23	N92-17882 *
US-PATENT-APPL-SN-791364	c 14	N72-17328 *	US-PATENT-APPL-SN-805298	c 10	N71-25899 *	US-PATENT-APPL-SN-822457	c 37	N92-30388 *
US-PATENT-APPL-SN-791693	c 05	N71-11203 *	US-PATENT-APPL-SN-805341	c 74	N92-29832 *	US-PATENT-APPL-SN-822518	c 09	N71-13522 *
US-PATENT-APPL-SN-791728	c 37	N92-17677 *	US-PATENT-APPL-SN-805405	c 14	N71-27323 *	US-PATENT-APPL-SN-822519	c 14	N71-28992 *
US-PATENT-APPL-SN-791759	c 33	N92-17907 *	US-PATENT-APPL-SN-805406	c 07	N71-24613 *	US-PATENT-APPL-SN-822534	c 09	N72-11224 *
US-PATENT-APPL-SN-791888	c 23	N71-24725 *	US-PATENT-APPL-SN-805549	c 35	N79-16246 *	US-PATENT-APPL-SN-822779	c 03	N76-32140 *
US-PATENT-APPL-SN-792067	c 24	N78-17150 *	US-PATENT-APPL-SN-806149	c 27	N71-16223 *	US-PATENT-APPL-SN-82280	c 09	N72-25262 *
US-PATENT-APPL-SN-792068	c 51	N79-10693 *	US-PATENT-APPL-SN-806226	c 14	N71-27407 *	US-PATENT-APPL-SN-823061	c 44	N79-23481 *
US-PATENT-APPL-SN-792069	c 37	N79-10418 *	US-PATENT-APPL-SN-806440	c 51	N79-10694 *	US-PATENT-APPL-SN-823566	c 74	N79-14891 *
US-PATENT-APPL-SN-792501	c 61	N92-30543 *	US-PATENT-APPL-SN-806572	c 27	N87-25469 *	US-PATENT-APPL-SN-823712	c 44	N88-14492 *
US-PATENT-APPL-SN-792623	c 14	N72-23457 *	US-PATENT-APPL-SN-807597	c 52	N80-16725 *	US-PATENT-APPL-SN-823713	c 26	N88-14179 *
US-PATENT-APPL-SN-793006	c 52	N86-19885 *	US-PATENT-APPL-SN-807703	c 37	N78-27424 *	US-PATENT-APPL-SN-823805	c 34	N92-30390 *
US-PATENT-APPL-SN-793657	c 17	N72-28536 *	US-PATENT-APPL-SN-807762	c 27	N78-31233 *	US-PATENT-APPL-SN-824024	c 44	N79-18443 *
US-PATENT-APPL-SN-793770	c 25	N71-15562 *	US-PATENT-APPL-SN-808192	c 15	N71-27432 *	US-PATENT-APPL-SN-824042	c 23	N71-29123 *
US-PATENT-APPL-SN-793771	c 14	N72-22440 *	US-PATENT-APPL-SN-808193	c 31	N71-26537 *	US-PATENT-APPL-SN-824628	c 34	N78-17337 *
US-PATENT-APPL-SN-793772	c 10	N71-18722 *	US-PATENT-APPL-SN-808302	c 74	N92-30312 *	US-PATENT-APPL-SN-824755	c 09	N70-33182 *
US-PATENT-APPL-SN-793823	c 09	N71-33109 *	US-PATENT-APPL-SN-808462	c 10	N71-27136 *	US-PATENT-APPL-SN-824806	c 37	N92-24351 *
US-PATENT-APPL-SN-793974	c 37	N92-34212 *	US-PATENT-APPL-SN-808510	c 33	N78-32338 *	US-PATENT-APPL-SN-824858	c 27	N92-24053 *
US-PATENT-APPL-SN-794530	c 15	N72-11386 *	US-PATENT-APPL-SN-808576	c 15	N71-27754 *	US-PATENT-APPL-SN-825253	c 16	N69-31343 *
US-PATENT-APPL-SN-794968	c 15	N71-27146 *	US-PATENT-APPL-SN-808577	c 32	N71-25360 *	US-PATENT-APPL-SN-825258	c 26	N72-21701 *
US-PATENT-APPL-SN-795182	c 07	N71-24840 *	US-PATENT-APPL-SN-808822	c 14	N73-16483 *	US-PATENT-APPL-SN-825259	c 14	N71-26788 *
US-PATENT-APPL-SN-795217	c 33	N71-25351 *	US-PATENT-APPL-SN-808981	c 27	N92-25397 *	US-PATENT-APPL-SN-825489	c 27	N81-15104 *
US-PATENT-APPL-SN-795805	c 08	N88-23808 *	US-PATENT-APPL-SN-809822	c 28	N71-27585 *	US-PATENT-APPL-SN-825895	c 37	N92-24055 *
US-PATENT-APPL-SN-795945	c 37	N87-25573 *	US-PATENT-APPL-SN-809851	c 33	N87-23904 *	US-PATENT-APPL-SN-826202	c 37	N79-28551 *
US-PATENT-APPL-SN-796053	c 37	N87-22985 *	US-PATENT-APPL-SN-809890	c 44	N79-17314 *	US-PATENT-APPL-SN-826204	c 37	N79-10420 *
US-PATENT-APPL-SN-796256	c 52	N80-18691 *	US-PATENT-APPL-SN-809890	c 44	N80-14474 *	US-PATENT-APPL-SN-826326	c 46	N79-22679 *
US-PATENT-APPL-SN-796258	c 52	N82-22875 *	US-PATENT-APPL-SN-809975	c 44	N87-17399 *	US-PATENT-APPL-SN-82647	c 28	N72-22772 *
US-PATENT-APPL-SN-796263	c 27	N79-28307 *	US-PATENT-APPL-SN-810575	c 15	N71-27169 *	US-PATENT-APPL-SN-82648	c 12	N72-25292 *
US-PATENT-APPL-SN-796358	c 05	N72-11085 *	US-PATENT-APPL-SN-810576	c 15	N73-12492 *	US-PATENT-APPL-SN-82649	c 08	N70-30135 *
US-PATENT-APPL-SN-796360	c 15	N71-24696 *	US-PATENT-APPL-SN-810576	c 25	N82-21269 *	US-PATENT-APPL-SN-826547	c 37	N92-17678 *
US-PATENT-APPL-SN-796370	c 10	N71-27366 *	US-PATENT-APPL-SN-810579	c 09	N72-22203 *	US-PATENT-APPL-SN-82658	c 30	N70-40309 *
US-PATENT-APPL-SN-796405	c 14	N71-27185 *	US-PATENT-APPL-SN-810579	c 33	N74-22864 *	US-PATENT-APPL-SN-827185	c 52	N89-16256 *
US-PATENT-APPL-SN-796496	c 37	N92-23378 *	US-PATENT-APPL-SN-810815	c 06	N72-22107 *	US-PATENT-APPL-SN-827464	c 74	N79-34011 *
US-PATENT-APPL-SN-796685	c 26	N72-28762 *	US-PATENT-APPL-SN-81095	c 13	N72-25323 *	US-PATENT-APPL-SN-827579	c 15	N71-24984 *
US-PATENT-APPL-SN-796690	c 07	N72-21119 *	US-PATENT-APPL-SN-81096	c 14	N73-14427 *	US-PATENT-APPL-SN-827597	c 26	N69-33482 *
US-PATENT-APPL-SN-796691	c 10	N71-26334 *	US-PATENT-APPL-SN-811037	c 14	N71-26137 *	US-PATENT-APPL-SN-828262	c 37	N79-14383 *
US-PATENT-APPL-SN-797056	c 15	N71-25975 *	US-PATENT-APPL-SN-811038	c 14	N72-20380 *	US-PATENT-APPL-SN-828909	c 28	N71-27094 *
US-PATENT-APPL-SN-797057	c 15	N70-22192 *	US-PATENT-APPL-SN-811309	c 76	N90-20896 *	US-PATENT-APPL-SN-828920	c 35	N74-22095 *
US-PATENT-APPL-SN-797058	c 05	N71-24738 *	US-PATENT-APPL-SN-811401	c 31	N81-25258 *	US-PATENT-APPL-SN-828921	c 09	N71-27001 *
US-PATENT-APPL-SN-797059	c 15	N71-28465 *	US-PATENT-APPL-SN-811509	c 02	N70-33332 *	US-PATENT-APPL-SN-828983	c 03	N71-24719 *
US-PATENT-APPL-SN-797210	c 28	N78-31255 *	US-PATENT-APPL-SN-811542	c 21	N71-28468 *	US-PATENT-APPL-SN-828984	c 08	N71-29033 *
US-PATENT-APPL-SN-797219	c 03	N71-33409 *	US-PATENT-APPL-SN-811815	c 44	N78-31525 *	US-PATENT-APPL-SN-829042	c 35	N89-14407 *
US-PATENT-APPL-SN-797569	c 74	N92-33022 *	US-PATENT-APPL-SN-811892	c 14	N71-27090 *	US-PATENT-APPL-SN-829314	c 09	N79-31228 *
US-PATENT-APPL-SN-797794	c 07	N71-12396 *	US-PATENT-APPL-SN-812084	c 24	N92-17870 *	US-PATENT-APPL-SN-829315	c 34	N79-20336 *
US-PATENT-APPL-SN-797795	c 07	N71-27191 *	US-PATENT-APPL-SN-812447	c 71	N79-20827 *	US-PATENT-APPL-SN-829316	c 18	N79-11108 *
US-PATENT-APPL-SN-797796	c 28	N71-14058 *	US-PATENT-APPL-SN-812901	c 74	N92-17864 *	US-PATENT-APPL-SN-829317	c 52	N80-18690 *
US-PATENT-APPL-SN-798277	c 23	N71-26654 *	US-PATENT-APPL-SN-812932	c 37	N92-33616 *	US-PATENT-APPL-SN-829318	c 52	N80-14684 *
US-PATENT-APPL-SN-798464	c 24	N92-17861 *	US-PATENT-APPL-SN-812998	c 28	N72-22769 *	US-PATENT-APPL-SN-829390	c 44	N79-11689 *
US-PATENT-APPL-SN-798713	c 28	N91-14495 *	US-PATENT-APPL-SN-812999	c 05	N71-12345 *	US-PATENT-APPL-SN-829390	c 44	N80-16452 *
US-PATENT-APPL-SN-798976	c 52	N81-25661 *	US-PATENT-APPL-SN-813338	c 18	N72-22566 *	US-PATENT-APPL-SN-829825	c 03	N71-24681 *
US-PATENT-APPL-SN-799013	c 09	N71-28468 *	US-PATENT-APPL-SN-813488	c 15	N71-28467 *	US-PATENT-APPL-SN-830272	c 33	N81-29342 *
US-PATENT-APPL-SN-799023	c 37	N79-10421 *	US-PATENT-APPL-SN-813494	c 08	N72-11171 *	US-PATENT-APPL-SN-830366	c 16	N72-13437 *
US-PATENT-APPL-SN-799024	c 24	N78-17149 *	US-PATENT-APPL-SN-813556	c 63	N92-30314 *	US-PATENT-APPL-SN-830458	c 46	N79-23555 *
US-PATENT-APPL-SN-799025	c 32	N80-29539 *	US-PATENT-APPL-SN-813558	c 37	N92-28727 *	US-PATENT-APPL-SN-830562	c 39	N80-10507 *
US-PATENT-APPL-SN-799026	c 44	N79-11468 *	US-PATENT-APPL-SN-813628	c 37	N92-17584 *	US-PATENT-APPL-SN-830715	c 15	N71-24903 *
US-PATENT-APPL-SN-799353	c 09	N71-27232 *	US-PATENT-APPL-SN-813629	c 54	N92-17866 *	US-PATENT-APPL-SN-830846	c 31	N80-32584 *
US-PATENT-APPL-SN-799460	c 37	N92-23544 *	US-PATENT-APPL-SN-814004	c 33	N79-18193 *	US-PATENT-APPL-SN-830978	c 28	N71-26173 *
US-PATENT-APPL-SN-799571	c 82	N92-30386 *	US-PATENT-APPL-SN-814005	c 76	N79-14906 *	US-PATENT-APPL-SN-831118	c 08	N72-11172 *
US-PATENT-APPL-SN-799832	c 33	N79-15245 *	US-PATENT-APPL-SN-814006	c 37	N79-22475 *	US-PATENT-APPL-SN-831193	c 32	N88-26568 *
US-PATENT-APPL-SN-800193	c 37	N87-17038 *	US-PATENT-APPL-SN-814212	c 14	N72-17326 *	US-PATENT-APPL-SN-831371	c 31	N87-25492 *
US-PATENT-APPL-SN-800194	c 76	N88-14835 *	US-PATENT-APPL-SN-814378	c 25	N79-10162 *	US-PATENT-APPL-SN-831372	c 35	N88-30108 *
US-PATENT-APPL-SN-800204	c 06	N72-17094 *	US-PATENT-APPL-SN-815099	c 60	N86-24224 *	US-PATENT-APPL-SN-831377	c 37	N87-23982 *
US-PATENT-APPL-SN-800229	c 14	N73-32320 *	US-PATENT-APPL-SN-815103	c 60	N89-26400 *	US-PATENT-APPL-SN-831631	c 32	N79-20297 *
US-PATENT-APPL-SN-800229	c 74	N74-20008 *	US-PATENT-APPL-SN-815106	c 60	N88-24169 *	US-PATENT-APPL-SN-831632	c 07	N80-26298 *
US-PATENT-APPL-SN-800973	c 16	N71-24832 *	US-PATENT-APPL-SN-815366	c 14	N71-28994 *	US-PATENT-APPL-SN-831633	c 05	N80-14107 *
US-PATENT-APPL-SN-801141	c 39	N92-23549 *	US-PATENT-APPL-SN-815367	c 14	N71-28863 *	US-PATENT-APPL-SN-831634	c 05	N79-12061 *
US-PATENT-APPL-SN-801290	c 37	N79-18318 *	US-PATENT-APPL-SN-815760	c 15	N71-27088 *	US-PATENT-APPL-SN-832296	c 26	N87-28647 *
US-PATENT-APPL-SN-801290	c 37	N80-26658 *	US-PATENT-APPL-SN-816733	c 15	N71-27064 *	US-PATENT-APPL-SN-832569	c 54	N92-24044 *
US-PATENT-APPL-SN-801290	c 37	N82-19540 *	US-PATENT-APPL-SN-816988	c 14	N71-26199 *	US-PATENT-APPL-SN-832603	c 09	N72-22189 *
US-PATENT-APPL-SN-801312	c 16	N71-15565 *	US-PATENT-APPL-SN-817413	c 33	N79-12321 *	US-PATENT-APPL-SN-833049	c 06	N72-21094 *
US-PATENT-APPL-SN-801336	c 02	N71-13422 *	US-PATENT-APPL-SN-817415	c 74	N79-20857 *	US-PATENT-APPL-SN-833637	c 33	N79-24257 *
US-PATENT-APPL-SN-801432	c 33	N78-32341 *	US-PATENT-APPL-SN-817481	c 09	N72-11225 *	US-PATENT-APPL-SN-834257	c 32	N80-14281 *
US-PATENT-APPL-SN-801452	c 44	N79-11471 *	US-PATENT-APPL-SN-817482	c 10	N71-27338 *	US-PATENT-APPL-SN-834451	c 35	N92-23545 *
US-PATENT-APPL-SN-801660	c 14	N71-26672 *	US-PATENT-APPL-SN-817569	c 06	N69-31244 *	US-PATENT-APPL-SN-834977	c 27	N87-23736 *
US-PATENT-APPL-SN-802078	c 32	N92-30103 *	US-PATENT-APPL-SN-818349	c 21	N71-19122 *	US-PATENT-APPL-SN-834978	c 27	N86-24841 *
US-PATENT-APPL-SN-802769	c 76	N86-25269 *	US-PATENT-APPL-SN-818916	c 05	N79-17847 *	US-PATENT-APPL-SN-835058	c 21	N72-22619 *
US-PATENT-APPL-SN-802812	c 10	N72-22235 *	US-PATENT-APPL-SN-818917	c 32	N79-13214 *	US-PATENT-APPL-SN-835059	c 09	N71-26133 *
US-PATENT-APPL-SN-802813	c 15	N72-22487 *	US-PATENT-APPL-SN-819029	c 20	N82-18314 *	US-PATENT-APPL-SN-835060	c 02	N71-26110 *
US-PATENT-APPL-SN-802816	c 31	N71-16346 *	US-PATENT-APPL-SN-819599	c 15	N71-19214 *	US-PATENT-APPL-SN-835146	c 15	N70-33264 *
US-PATENT-APPL-SN-802818	c 07	N71-29065 *	US-PATENT-APPL-SN-819898	c 30	N72-17873 *	US-PATENT-APPL-SN-835152	c 28	N70-38199 *
US-PATENT-APPL-SN-802820	c 10	N71-13545 *	US-PATENT-APPL-SN-8203	c 15	N70-33180 *	US-PATENT-APPL-SN-835153	c 31	N71-17680 *
US-PATENT-APPL-SN-802948	c 31	N71-33160 *	US-PATENT-APPL-SN-820431	c 34	N92-29954 *	US-PATENT-APPL-SN-835419	c 33	N80-18285 *
US-PATENT-APPL-SN-802972	c 09	N71-26678 *	US-PATENT-APPL-SN-820432	c 34	N92-29830 *	US-PATENT-APPL-SN-835544	c 33	N79-14305 *
US-PATENT-APPL-SN-80368	c 09	N73-20231 *	US-PATENT-APPL-SN-820453	c 03	N72-24037 *	US-PATENT-APPL-SN-835628	c 35	N79-14347 *
US-PATENT-APPL-SN-803689	c 09	N72-22198 *	US-PATENT-APPL-SN-820498	c 89	N79-10969 *	US-PATENT-APPL-SN-836280	c 14	N73-14428 *
US-PATENT-APPL-SN-803822	c 26	N79-22271 *	US-PATENT-APPL-SN-820499	c 76	N79-23798 *	US-PATENT-APPL-SN-836280	c 35	N75-25122 *
US-PATENT-APPL-SN-803822	c 26	N80-32484 *	US-PATENT-APPL-SN-8204	c 31	N73-27981 *	US-PATENT-APPL-SN-836367	c 09	N71-24804 *
US-PATENT-APPL-SN-803823	c 44	N79-11467 *	US-PATENT-APPL-SN-820963	c 07	N71-19854 *	US-PATENT-APPL-SN-837259	c 54	N79-24652 *
US-PATENT-APPL-SN-803828	c 51	N92-24052 *	US-PATENT-APPL-SN-820964	c 15	N71-28740 *	US-PATENT-APPL-SN-837260	c 37	N78-27423 *
US-PATENT-APPL-SN-804035	c 35	N79-14348 *	US-PATENT-APPL-SN-820965	c 09	N71-13486 *	US-PATENT-APPL-SN-837377	c 15	N71-26148 *
US-PATENT-APPL-SN								

US-PATENT-APPL-SN-837794	c 28	N80-20402 *	US-PATENT-APPL-SN-849274	c 28	N79-14228 *	US-PATENT-APPL-SN-862942	c 33	N90-20320 *
US-PATENT-APPL-SN-837794	c 28	N81-14103 *	US-PATENT-APPL-SN-849612	c 39	N92-30317 #	US-PATENT-APPL-SN-862959	c 33	N87-21232 *
US-PATENT-APPL-SN-837795	c 36	N80-14384 *	US-PATENT-APPL-SN-84961	c 02	N70-34178 *	US-PATENT-APPL-SN-863024	c 46	N80-14603 *
US-PATENT-APPL-SN-837796	c 35	N79-14345 *	US-PATENT-APPL-SN-849629	c 37	N92-23553 #	US-PATENT-APPL-SN-863276	c 16	N72-12440 *
US-PATENT-APPL-SN-837825	c 15	N71-27006 *	US-PATENT-APPL-SN-84962	c 21	N70-36943 *	US-PATENT-APPL-SN-863280	c 24	N72-33681 *
US-PATENT-APPL-SN-837830	c 02	N71-27088 *	US-PATENT-APPL-SN-8497	c 14	N72-11363 *	US-PATENT-APPL-SN-8636	c 15	N72-25451 *
US-PATENT-APPL-SN-83816	c 44	N74-14784 *	US-PATENT-APPL-SN-8498	c 05	N71-24729 *	US-PATENT-APPL-SN-863770	c 44	N79-18444 *
US-PATENT-APPL-SN-838278	c 60	N74-20836 *	US-PATENT-APPL-SN-850504	c 52	N81-14613 *	US-PATENT-APPL-SN-863773	c 44	N72-26475 *
US-PATENT-APPL-SN-838308	c 52	N80-27072 *	US-PATENT-APPL-SN-850504	c 52	N81-29764 *	US-PATENT-APPL-SN-863883	c 74	N92-30027 #
US-PATENT-APPL-SN-838336	c 44	N79-11470 *	US-PATENT-APPL-SN-850507	c 25	N79-14169 *	US-PATENT-APPL-SN-863913	c 14	N71-28991 *
US-PATENT-APPL-SN-838337	c 31	N79-17029 *	US-PATENT-APPL-SN-850586	c 31	N71-25434 *	US-PATENT-APPL-SN-863914	c 09	N72-31235 *
US-PATENT-APPL-SN-838630	c 14	N71-28993 *	US-PATENT-APPL-SN-850587	c 08	N72-21199 *	US-PATENT-APPL-SN-863963	c 10	N71-26085 *
US-PATENT-APPL-SN-838648	c 33	N87-23879 *	US-PATENT-APPL-SN-851298	c 15	N72-12409 *	US-PATENT-APPL-SN-863967	c 11	N71-27036 *
US-PATENT-APPL-SN-838649	c 34	N91-14562 *	US-PATENT-APPL-SN-851394	c 09	N71-24892 *	US-PATENT-APPL-SN-864020	c 15	N72-17454 *
US-PATENT-APPL-SN-838654	c 27	N90-21198 *	US-PATENT-APPL-SN-852131	c 15	N71-24836 *	US-PATENT-APPL-SN-864039	c 15	N72-22483 *
US-PATENT-APPL-SN-838655	c 27	N87-22848 *	US-PATENT-APPL-SN-852461	c 27	N89-16042 *	US-PATENT-APPL-SN-864097	c 07	N71-33606 *
US-PATENT-APPL-SN-839934	c 07	N72-20140 *	US-PATENT-APPL-SN-852466	c 37	N87-24689 *	US-PATENT-APPL-SN-86417	c 07	N72-25171 *
US-PATENT-APPL-SN-839935	c 15	N71-24895 *	US-PATENT-APPL-SN-852467	c 27	N87-24564 *	US-PATENT-APPL-SN-8650	c 03	N72-25021 *
US-PATENT-APPL-SN-839941	c 07	N71-26181 *	US-PATENT-APPL-SN-852468	c 72	N87-21661 *	US-PATENT-APPL-SN-865106	c 09	N72-22202 *
US-PATENT-APPL-SN-839963	c 27	N79-33316 *	US-PATENT-APPL-SN-852843	c 09	N72-22195 *	US-PATENT-APPL-SN-865109	c 14	N71-28933 *
US-PATENT-APPL-SN-839963	c 27	N81-14078 *	US-PATENT-APPL-SN-853349	c 35	N81-33448 *	US-PATENT-APPL-SN-865274	c 09	N72-17155 *
US-PATENT-APPL-SN-839994	c 28	N71-28915 *	US-PATENT-APPL-SN-853361	c 37	N87-22977 *	US-PATENT-APPL-SN-865298	c 15	N72-11388 *
US-PATENT-APPL-SN-84002	c 08	N73-20217 *	US-PATENT-APPL-SN-853641	c 33	N72-25913 *	US-PATENT-APPL-SN-865329	c 15	N71-29132 *
US-PATENT-APPL-SN-840176	c 28	N71-27095 *	US-PATENT-APPL-SN-853677	c 34	N79-31523 *	US-PATENT-APPL-SN-86548	c 09	N72-21243 *
US-PATENT-APPL-SN-840308	c 07	N71-33613 *	US-PATENT-APPL-SN-853679	c 35	N79-14346 *	US-PATENT-APPL-SN-865811	c 09	N71-27053 *
US-PATENT-APPL-SN-840359	c 23	N71-29125 *	US-PATENT-APPL-SN-853705	c 45	N79-12584 *	US-PATENT-APPL-SN-865909	c 14	N72-11364 *
US-PATENT-APPL-SN-840816	c 27	N87-28657 *	US-PATENT-APPL-SN-853716	c 09	N71-24904 *	US-PATENT-APPL-SN-866442	c 25	N72-24753 *
US-PATENT-APPL-SN-840870	c 15	N71-26189 *	US-PATENT-APPL-SN-853746	c 02	N72-11018 *	US-PATENT-APPL-SN-866769	c 39	N92-30028 #
US-PATENT-APPL-SN-840900	c 26	N87-25455 *	US-PATENT-APPL-SN-853763	c 07	N70-12616 #	US-PATENT-APPL-SN-866779	c 37	N92-24043 #
US-PATENT-APPL-SN-840983	c 05	N70-32825 *	US-PATENT-APPL-SN-853763	c 07	N72-33146 *	US-PATENT-APPL-SN-867841	c 11	N72-22246 *
US-PATENT-APPL-SN-841278	c 33	N77-21316 *	US-PATENT-APPL-SN-853855	c 17	N72-22530 *	US-PATENT-APPL-SN-867842	c 23	N72-22728 *
US-PATENT-APPL-SN-841845	c 14	N73-23217 *	US-PATENT-APPL-SN-853855	c 17	N72-28535 *	US-PATENT-APPL-SN-867843	c 14	N71-26161 *
US-PATENT-APPL-SN-84212	c 27	N74-17283 *	US-PATENT-APPL-SN-853856	c 16	N71-29131 *	US-PATENT-APPL-SN-867851	c 15	N72-22484 *
US-PATENT-APPL-SN-842170	c 11	N70-33278 *	US-PATENT-APPL-SN-853983	c 14	N70-33254 *	US-PATENT-APPL-SN-867986	c 74	N86-33138 #
US-PATENT-APPL-SN-842171	c 11	N70-33329 *	US-PATENT-APPL-SN-853984	c 21	N70-33181 *	US-PATENT-APPL-SN-867987	c 27	N88-23894 *
US-PATENT-APPL-SN-842297	c 33	N92-23464 *	US-PATENT-APPL-SN-854124	c 33	N92-24246 #	US-PATENT-APPL-SN-868249	c 33	N80-18286 *
US-PATENT-APPL-SN-842300	c 74	N92-23500 #	US-PATENT-APPL-SN-854185	c 09	N71-24807 *	US-PATENT-APPL-SN-868445	c 14	N72-17323 *
US-PATENT-APPL-SN-842313	c 27	N92-23461 #	US-PATENT-APPL-SN-854920	c 15	N79-26100 *	US-PATENT-APPL-SN-868529	c 08	N72-22167 *
US-PATENT-APPL-SN-84289	c 15	N73-14469 *	US-PATENT-APPL-SN-855004	c 24	N72-11595 *	US-PATENT-APPL-SN-868530	c 05	N72-11084 *
US-PATENT-APPL-SN-84290	c 05	N73-20137 *	US-PATENT-APPL-SN-855363	c 74	N92-30029 #	US-PATENT-APPL-SN-868775	c 09	N72-25261 *
US-PATENT-APPL-SN-842956	c 82	N92-23550 #	US-PATENT-APPL-SN-855364	c 52	N81-27783 *	US-PATENT-APPL-SN-868775	c 09	N73-27150 #
US-PATENT-APPL-SN-843022	c 11	N70-33287 *	US-PATENT-APPL-SN-855585	c 21	N70-35427 *	US-PATENT-APPL-SN-869260	c 05	N72-20097 *
US-PATENT-APPL-SN-843032	c 28	N70-41818 *	US-PATENT-APPL-SN-855879	c 27	N88-18725 *	US-PATENT-APPL-SN-869260	c 05	N73-25125 *
US-PATENT-APPL-SN-843090	c 27	N79-22300 *	US-PATENT-APPL-SN-855982	c 31	N88-14223 *	US-PATENT-APPL-SN-870689	c 06	N72-25148 *
US-PATENT-APPL-SN-843251	c 03	N72-11062 *	US-PATENT-APPL-SN-855983	c 03	N88-14083 *	US-PATENT-APPL-SN-871207	c 23	N86-32526 #
US-PATENT-APPL-SN-843308	c 32	N79-14268 *	US-PATENT-APPL-SN-856253	c 24	N74-19769 *	US-PATENT-APPL-SN-87222	c 05	N72-27103 *
US-PATENT-APPL-SN-843653	c 34	N92-30024 #	US-PATENT-APPL-SN-856258	c 05	N71-17599 *	US-PATENT-APPL-SN-872602	c 09	N72-22200 *
US-PATENT-APPL-SN-843861	c 37	N92-23547 #	US-PATENT-APPL-SN-856279	c 07	N72-21118 *	US-PATENT-APPL-SN-872664	c 08	N70-34675 #
US-PATENT-APPL-SN-844225	c 05	N72-25120 *	US-PATENT-APPL-SN-856282	c 08	N72-22166 *	US-PATENT-APPL-SN-873045	c 14	N72-20379 *
US-PATENT-APPL-SN-844243	c 37	N75-29426 *	US-PATENT-APPL-SN-856327	c 05	N72-16015 *	US-PATENT-APPL-SN-873259	c 08	N72-21200 *
US-PATENT-APPL-SN-844315	c 35	N77-21392 *	US-PATENT-APPL-SN-856328	c 14	N72-22441 *	US-PATENT-APPL-SN-873260	c 33	N72-17948 *
US-PATENT-APPL-SN-844344	c 24	N79-14156 *	US-PATENT-APPL-SN-856415	c 09	N71-26182 *	US-PATENT-APPL-SN-873793	c 14	N72-21407 *
US-PATENT-APPL-SN-844346	c 44	N79-11472 *	US-PATENT-APPL-SN-856460	c 25	N79-24073 *	US-PATENT-APPL-SN-873931	c 54	N92-24056 #
US-PATENT-APPL-SN-844355	c 03	N72-26031 *	US-PATENT-APPL-SN-856461	c 34	N79-12359 *	US-PATENT-APPL-SN-874177	c 11	N72-25284 *
US-PATENT-APPL-SN-845090	c 27	N92-30313 #	US-PATENT-APPL-SN-856462	c 34	N80-24573 *	US-PATENT-APPL-SN-874319	c 35	N88-23966 *
US-PATENT-APPL-SN-845283	c 63	N92-24245 #	US-PATENT-APPL-SN-856462	c 44	N81-24519 *	US-PATENT-APPL-SN-874435	c 11	N71-33612 *
US-PATENT-APPL-SN-845365	c 09	N71-13518 *	US-PATENT-APPL-SN-856464	c 36	N79-14362 *	US-PATENT-APPL-SN-874673	c 27	N82-29454 *
US-PATENT-APPL-SN-845584	c 27	N73-22710 *	US-PATENT-APPL-SN-856465	c 44	N80-14473 *	US-PATENT-APPL-SN-874674	c 27	N82-29452 *
US-PATENT-APPL-SN-845807	c 15	N72-11391 *	US-PATENT-APPL-SN-856466	c 72	N80-14877 *	US-PATENT-APPL-SN-874675	c 27	N82-29455 *
US-PATENT-APPL-SN-845971	c 11	N71-28629 *	US-PATENT-APPL-SN-857241	c 46	N74-23069 *	US-PATENT-APPL-SN-874732	c 09	N71-29139 *
US-PATENT-APPL-SN-845972	c 09	N70-11148 #	US-PATENT-APPL-SN-857445	c 05	N71-24728 *	US-PATENT-APPL-SN-874733	c 15	N71-26635 *
US-PATENT-APPL-SN-845973	c 11	N71-24985 *	US-PATENT-APPL-SN-857901	c 27	N92-30100 #	US-PATENT-APPL-SN-874958	c 31	N71-15566 *
US-PATENT-APPL-SN-845974	c 33	N71-25353 *	US-PATENT-APPL-SN-857967	c 15	N72-20443 *	US-PATENT-APPL-SN-87550	c 06	N72-25146 *
US-PATENT-APPL-SN-845990	c 14	N71-27005 *	US-PATENT-APPL-SN-858054	c 31	N91-32240 *	US-PATENT-APPL-SN-87551	c 33	N73-16918 *
US-PATENT-APPL-SN-845991	c 14	N71-29134 *	US-PATENT-APPL-SN-858176	c 33	N92-30389 #	US-PATENT-APPL-SN-875798	c 37	N88-23978 *
US-PATENT-APPL-SN-846427	c 36	N88-14350 *	US-PATENT-APPL-SN-858596	c 35	N78-18395 #	US-PATENT-APPL-SN-875799	c 34	N87-28867 *
US-PATENT-APPL-SN-846428	c 34	N87-21255 *	US-PATENT-APPL-SN-858695	c 11	N72-22247 *	US-PATENT-APPL-SN-875849	c 07	N71-33696 *
US-PATENT-APPL-SN-846429	c 35	N88-29149 *	US-PATENT-APPL-SN-858762	c 08	N79-23097 *	US-PATENT-APPL-SN-875891	c 31	N86-32589 #
US-PATENT-APPL-SN-846430	c 82	N87-29372 *	US-PATENT-APPL-SN-858764	c 33	N79-10338 *	US-PATENT-APPL-SN-87597	c 33	N74-22864 *
US-PATENT-APPL-SN-846439	c 08	N87-23631 *	US-PATENT-APPL-SN-858765	c 33	N79-11313 *	US-PATENT-APPL-SN-876299	c 44	N80-18552 *
US-PATENT-APPL-SN-846462	c 07	N87-16828 *	US-PATENT-APPL-SN-858766	c 27	N79-14213 *	US-PATENT-APPL-SN-876431	c 33	N79-24254 *
US-PATENT-APPL-SN-847023	c 31	N70-37938 *	US-PATENT-APPL-SN-858767	c 32	N83-19968 *	US-PATENT-APPL-SN-876432	c 36	N80-18372 *
US-PATENT-APPL-SN-847027	c 03	N70-33343 *	US-PATENT-APPL-SN-858936	c 07	N80-18039 *	US-PATENT-APPL-SN-876438	c 52	N79-26772 *
US-PATENT-APPL-SN-847276	c 37	N81-32510 *	US-PATENT-APPL-SN-858950	c 35	N78-17359 *	US-PATENT-APPL-SN-876440	c 51	N80-16714 *
US-PATENT-APPL-SN-847277	c 31	N79-28370 *	US-PATENT-APPL-SN-86018	c 23	N71-30292 *	US-PATENT-APPL-SN-876441	c 74	N79-20856 *
US-PATENT-APPL-SN-847278	c 34	N79-20335 *	US-PATENT-APPL-SN-860404	c 37	N81-15364 *	US-PATENT-APPL-SN-876588	c 15	N72-25452 *
US-PATENT-APPL-SN-847596	c 15	N70-10867 #	US-PATENT-APPL-SN-860405	c 26	N79-22271 *	US-PATENT-APPL-SN-876588	c 25	N74-30502 *
US-PATENT-APPL-SN-847815	c 52	N75-15270 *	US-PATENT-APPL-SN-860406	c 24	N79-17916 *	US-PATENT-APPL-SN-876592	c 35	N92-30030 #
US-PATENT-APPL-SN-848282	c 15	N72-21462 *	US-PATENT-APPL-SN-860492	c 09	N72-20199 *	US-PATENT-APPL-SN-877445	c 23	N82-29358 *
US-PATENT-APPL-SN-848325	c 06	N70-11251 #	US-PATENT-APPL-SN-860493	c 14	N72-16283 *	US-PATENT-APPL-SN-877717	c 14	N72-27410 *
US-PATENT-APPL-SN-848351	c 06	N70-11252 #	US-PATENT-APPL-SN-860635	c 28	N72-17843 *	US-PATENT-APPL-SN-877717	c 14	N73-13417 *
US-PATENT-APPL-SN-848403	c 33	N74-20859 *	US-PATENT-APPL-SN-860750	c 08	N72-22165 *	US-PATENT-APPL-SN-877966	c 33	N92-30542 #
US-PATENT-APPL-SN-848403	c 36	N75-27364 *	US-PATENT-APPL-SN-860751	c 08	N72-18184 *	US-PATENT-APPL-SN-877990	c 14	N72-28437 *
US-PATENT-APPL-SN-848418	c 43	N79-26439 *	US-PATENT-APPL-SN-860781	c 18	N72-22567 *	US-PATENT-APPL-SN-878253	c 25	N81-33246 *
US-PATENT-APPL-SN-848419	c 43	N80-23711 *	US-PATENT-APPL-SN-861152	c 14	N70-33322 *	US-PATENT-APPL-SN-878539	c 35	N80-20560 *
US-PATENT-APPL-SN-848420	c 43	N79-25443 *	US-PATENT-APPL-SN-861390	c 28	N79-28342 *	US-PATENT-APPL-SN-878540	c 24	N82-26384 *
US-PATENT-APPL-SN-848421	c 43	N80-14423 *	US-PATENT-APPL-SN-861391	c 44	N79-12541 *	US-PATENT-APPL-SN-878541	c 33	N81-14220 *
US-PATENT-APPL-SN-848428	c 25	N82-21268 *	US-PATENT-APPL-SN-861392	c 71	N79-23753 *	US-PATENT-APPL-SN-878542	c 33	N79-28416 *
US-PATENT-APPL-SN-848481	c 17	N70-33283 *	US-PATENT-APPL-SN-861396	c 35	N79-14349 *	US-PATENT-APPL-SN-878631	c 38	N92-29829 #
US-PATENT-APPL-SN-848776	c 07	N72-22127 *	US-PATENT-APPL-SN-861649	c 14	N72-17327 *	US-PATENT-APPL-SN-878730	c 08	N72-22164 *
US-PATENT-APPL-SN-848793	c 43	N79-31706 *	US-PATENT-APPL-SN-862113	c 44	N92-24057 #	US-PATENT-APPL-SN-878731	c 15	N71-26162 *
US-PATENT-APPL-SN-848794	c 44	N79-24431 *	US-PATENT-APPL-SN-862861	c 37	N92-24042 #	US-PATENT-APPL-SN-878916	c 60	N87-14863 #
US-PATENT-APPL-SN-848805	c 06	N72-17095 *	US-PATENT-APPL-SN-862878	c 09	N82-29330 *	US-PATENT-APPL-SN-879757	c 33	N87-1

US-PATENT-APPL-SN-880246	c 28	N72-22770 *	US-PATENT-APPL-SN-893382	c 34	N79-24285 *	US-PATENT-APPL-SN-924470	c 23	N90-19300 *
US-PATENT-APPL-SN-880247	c 09	N70-20737 *	US-PATENT-APPL-SN-893383	c 31	N81-27323 *	US-PATENT-APPL-SN-924472	c 32	N87-18692 *
US-PATENT-APPL-SN-880248	c 07	N72-11150 *	US-PATENT-APPL-SN-893657	c 51	N80-27067 *	US-PATENT-APPL-SN-924474	c 23	N88-26404 *
US-PATENT-APPL-SN-880249	c 15	N72-22482 *	US-PATENT-APPL-SN-893857	c 24	N81-17170 *	US-PATENT-APPL-SN-924474	c 25	N90-23497 *
US-PATENT-APPL-SN-880250	c 03	N72-20032 *	US-PATENT-APPL-SN-893857	c 24	N81-26179 *	US-PATENT-APPL-SN-924474	c 23	N91-17141 *
US-PATENT-APPL-SN-880271	c 15	N72-25448 *	US-PATENT-APPL-SN-893865	c 37	N81-24443 *	US-PATENT-APPL-SN-924689	c 24	N92-34214 *
US-PATENT-APPL-SN-880272	c 14	N71-27058 *	US-PATENT-APPL-SN-893903	c 60	N81-15706 *	US-PATENT-APPL-SN-925189	c 76	N88-24544 *
US-PATENT-APPL-SN-880398	c 15	N73-12487 *	US-PATENT-APPL-SN-894213	c 37	N80-23655 *	US-PATENT-APPL-SN-9251	c 03	N70-34646 *
US-PATENT-APPL-SN-880726	c 44	N80-21828 *	US-PATENT-APPL-SN-894541	c 54	N89-29953 *	US-PATENT-APPL-SN-927972	c 74	N89-14078 *
US-PATENT-APPL-SN-880727	c 35	N79-28527 *	US-PATENT-APPL-SN-897828	c 52	N81-29763 *	US-PATENT-APPL-SN-927987	c 62	N90-19776 *
US-PATENT-APPL-SN-880728	c 37	N80-10494 *	US-PATENT-APPL-SN-897829	c 44	N79-25481 *	US-PATENT-APPL-SN-927992	c 37	N87-18818 *
US-PATENT-APPL-SN-880729	c 35	N80-20563 *	US-PATENT-APPL-SN-897830	c 35	N80-21719 *	US-PATENT-APPL-SN-928128	c 44	N80-18551 *
US-PATENT-APPL-SN-880831	c 11	N72-20244 *	US-PATENT-APPL-SN-897831	c 44	N80-20808 *	US-PATENT-APPL-SN-928129	c 35	N80-14371 *
US-PATENT-APPL-SN-880838	c 37	N79-28549 *	US-PATENT-APPL-SN-897832	c 43	N81-26509 *	US-PATENT-APPL-SN-928130	c 35	N80-20559 *
US-PATENT-APPL-SN-880851	c 24	N92-34208 *	US-PATENT-APPL-SN-897840	c 31	N81-14137 *	US-PATENT-APPL-SN-928131	c 09	N79-31228 *
US-PATENT-APPL-SN-880885	c 07	N72-12080 *	US-PATENT-APPL-SN-898449	c 31	N88-29052 *	US-PATENT-APPL-SN-928133	c 44	N80-18550 *
US-PATENT-APPL-SN-881039	c 09	N71-24842 *	US-PATENT-APPL-SN-899123	c 44	N79-14528 *	US-PATENT-APPL-SN-928137	c 52	N80-23969 *
US-PATENT-APPL-SN-881041	c 09	N72-22204 *	US-PATENT-APPL-SN-899536	c 37	N92-30316 *	US-PATENT-APPL-SN-929083	c 36	N80-16321 *
US-PATENT-APPL-SN-881912	c 39	N92-30099 *	US-PATENT-APPL-SN-899683	c 18	N91-27199 *	US-PATENT-APPL-SN-929084	c 37	N81-19455 *
US-PATENT-APPL-SN-882122	c 14	N72-22438 *	US-PATENT-APPL-SN-899828	c 32	N80-18252 *	US-PATENT-APPL-SN-929086	c 24	N81-13999 *
US-PATENT-APPL-SN-882408	c 37	N92-29762 *	US-PATENT-APPL-SN-900659	c 27	N81-17261 *	US-PATENT-APPL-SN-929087	c 35	N80-28687 *
US-PATENT-APPL-SN-882577	c 07	N71-27056 *	US-PATENT-APPL-SN-900841	c 32	N82-31583 *	US-PATENT-APPL-SN-929088	c 74	N80-24149 *
US-PATENT-APPL-SN-883090	c 44	N80-29834 *	US-PATENT-APPL-SN-900842	c 32	N79-24203 *	US-PATENT-APPL-SN-929553	c 26	N92-34239 *
US-PATENT-APPL-SN-883094	c 54	N79-24651 *	US-PATENT-APPL-SN-900843	c 44	N80-20810 *	US-PATENT-APPL-SN-929556	c 54	N92-34210 *
US-PATENT-APPL-SN-883523	c 09	N72-33204 *	US-PATENT-APPL-SN-901055	c 76	N80-32245 *	US-PATENT-APPL-SN-929862	c 02	N89-12551 *
US-PATENT-APPL-SN-883524	c 09	N72-21246 *	US-PATENT-APPL-SN-901113	c 35	N87-28884 *	US-PATENT-APPL-SN-929865	c 18	N89-12621 *
US-PATENT-APPL-SN-883957	c 74	N92-30084 *	US-PATENT-APPL-SN-901114	c 76	N88-14836 *	US-PATENT-APPL-SN-929869	c 35	N87-23941 *
US-PATENT-APPL-SN-883961	c 25	N80-16116 *	US-PATENT-APPL-SN-901496	c 23	N87-23698 *	US-PATENT-APPL-SN-929869	c 52	N90-21519 *
US-PATENT-APPL-SN-884097	c 25	N92-34206 *	US-PATENT-APPL-SN-901626	c 35	N92-39452 *	US-PATENT-APPL-SN-929869	c 52	N92-11621 *
US-PATENT-APPL-SN-88435	c 35	N74-15090 *	US-PATENT-APPL-SN-902265	c 37	N92-34242 *	US-PATENT-APPL-SN-929875	c 18	N88-28958 *
US-PATENT-APPL-SN-885049	c 33	N79-23345 *	US-PATENT-APPL-SN-902266	c 37	N92-30101 *	US-PATENT-APPL-SN-929875	c 18	N89-28554 *
US-PATENT-APPL-SN-885065	c 35	N79-18296 *	US-PATENT-APPL-SN-903019	c 46	N80-17079 *	US-PATENT-APPL-SN-929876	c 32	N91-14523 *
US-PATENT-APPL-SN-885066	c 33	N80-26599 *	US-PATENT-APPL-SN-904128	c 25	N88-23845 *	US-PATENT-APPL-SN-930217	c 25	N88-24732 *
US-PATENT-APPL-SN-885067	c 33	N79-28415 *	US-PATENT-APPL-SN-904132	c 02	N89-14224 *	US-PATENT-APPL-SN-931090	c 37	N80-26658 *
US-PATENT-APPL-SN-885521	c 03	N72-28025 *	US-PATENT-APPL-SN-904134	c 18	N88-26398 *	US-PATENT-APPL-SN-931090	c 37	N82-19540 *
US-PATENT-APPL-SN-885571	c 09	N71-28886 *	US-PATENT-APPL-SN-904513	c 33	N88-14270 *	US-PATENT-APPL-SN-931217	c 37	N80-32716 *
US-PATENT-APPL-SN-885594	c 15	N71-29133 *	US-PATENT-APPL-SN-904550	c 74	N92-30104 *	US-PATENT-APPL-SN-931218	c 20	N80-18097 *
US-PATENT-APPL-SN-885714	c 74	N92-29951 *	US-PATENT-APPL-SN-904812	c 37	N88-14359 *	US-PATENT-APPL-SN-933186	c 27	N80-32515 *
US-PATENT-APPL-SN-886121	c 39	N87-25601 *	US-PATENT-APPL-SN-90595	c 03	N72-20031 *	US-PATENT-APPL-SN-93329	c 09	N73-26195 *
US-PATENT-APPL-SN-886149	c 27	N87-28656 *	US-PATENT-APPL-SN-906297	c 44	N79-14529 *	US-PATENT-APPL-SN-933941	c 33	N89-14385 *
US-PATENT-APPL-SN-886149	c 27	N89-29538 *	US-PATENT-APPL-SN-906298	c 76	N80-18951 *	US-PATENT-APPL-SN-933961	c 76	N87-29360 *
US-PATENT-APPL-SN-887001	c 18	N92-30315 *	US-PATENT-APPL-SN-906299	c 27	N80-16158 *	US-PATENT-APPL-SN-933962	c 25	N88-29002 *
US-PATENT-APPL-SN-887002	c 34	N92-30387 *	US-PATENT-APPL-SN-907421	c 37	N81-14318 *	US-PATENT-APPL-SN-933963	c 05	N88-28914 *
US-PATENT-APPL-SN-887674	c 27	N92-30539 *	US-PATENT-APPL-SN-907431	c 37	N81-25370 *	US-PATENT-APPL-SN-934397	c 18	N88-23827 *
US-PATENT-APPL-SN-887685	c 10	N72-20223 *	US-PATENT-APPL-SN-907435	c 27	N80-10358 *	US-PATENT-APPL-SN-934576	c 35	N80-18358 *
US-PATENT-APPL-SN-887698	c 09	N72-17153 *	US-PATENT-APPL-SN-907436	c 37	N80-14398 *	US-PATENT-APPL-SN-935827	c 37	N80-18393 *
US-PATENT-APPL-SN-887699	c 15	N72-17452 *	US-PATENT-APPL-SN-907479	c 27	N80-24438 *	US-PATENT-APPL-SN-936417	c 74	N92-34241 *
US-PATENT-APPL-SN-887700	c 07	N71-28980 *	US-PATENT-APPL-SN-908677	c 63	N92-30085 *	US-PATENT-APPL-SN-937114	c 44	N82-26780 *
US-PATENT-APPL-SN-887701	c 08	N71-29034 *	US-PATENT-APPL-SN-909100	c 37	N79-28550 *	US-PATENT-APPL-SN-938293	c 32	N80-32605 *
US-PATENT-APPL-SN-888362	c 33	N80-14330 *	US-PATENT-APPL-SN-909235	c 07	N81-19115 *	US-PATENT-APPL-SN-938297	c 25	N81-14015 *
US-PATENT-APPL-SN-888432	c 74	N81-17886 *	US-PATENT-APPL-SN-909501	c 32	N92-30391 *	US-PATENT-APPL-SN-938298	c 33	N81-17348 *
US-PATENT-APPL-SN-888434	c 51	N83-27569 *	US-PATENT-APPL-SN-909608	c 07	N81-19116 *	US-PATENT-APPL-SN-938299	c 33	N81-19389 *
US-PATENT-APPL-SN-889374	c 08	N72-25207 *	US-PATENT-APPL-SN-910707	c 32	N80-20448 *	US-PATENT-APPL-SN-938300	c 37	N80-23654 *
US-PATENT-APPL-SN-889375	c 10	N72-20222 *	US-PATENT-APPL-SN-910708	c 06	N80-18036 *	US-PATENT-APPL-SN-938579	c 76	N80-32244 *
US-PATENT-APPL-SN-889376	c 18	N71-16285 *	US-PATENT-APPL-SN-910793	c 44	N80-16452 *	US-PATENT-APPL-SN-938581	c 04	N80-32359 *
US-PATENT-APPL-SN-889387	c 09	N71-29035 *	US-PATENT-APPL-SN-910794	c 14	N81-26161 *	US-PATENT-APPL-SN-938582	c 37	N80-23653 *
US-PATENT-APPL-SN-889420	c 14	N72-25413 *	US-PATENT-APPL-SN-910992	c 52	N81-24711 *	US-PATENT-APPL-SN-94049	c 14	N73-20476 *
US-PATENT-APPL-SN-889422	c 09	N72-25259 *	US-PATENT-APPL-SN-91180	c 14	N70-40240 *	US-PATENT-APPL-SN-940688	c 24	N79-24062 *
US-PATENT-APPL-SN-889423	c 10	N72-22236 *	US-PATENT-APPL-SN-911851	c 29	N87-18679 *	US-PATENT-APPL-SN-940689	c 35	N80-28686 *
US-PATENT-APPL-SN-889437	c 15	N72-11392 *	US-PATENT-APPL-SN-912276	c 24	N81-29163 *	US-PATENT-APPL-SN-940970	c 72	N80-27163 *
US-PATENT-APPL-SN-889438	c 15	N72-18477 *	US-PATENT-APPL-SN-912401	c 27	N92-29831 *	US-PATENT-APPL-SN-941335	c 63	N92-34240 *
US-PATENT-APPL-SN-889478	c 08	N71-29138 *	US-PATENT-APPL-SN-912955	c 37	N92-29765 *	US-PATENT-APPL-SN-941711	c 24	N80-26388 *
US-PATENT-APPL-SN-889479	c 14	N72-17325 *	US-PATENT-APPL-SN-912956	c 33	N92-30086 *	US-PATENT-APPL-SN-942158	c 34	N88-29133 *
US-PATENT-APPL-SN-889551	c 21	N72-21624 *	US-PATENT-APPL-SN-912981	c 76	N92-30102 *	US-PATENT-APPL-SN-942159	c 37	N87-18817 *
US-PATENT-APPL-SN-889554	c 15	N72-20444 *	US-PATENT-APPL-SN-913432	c 18	N88-23828 *	US-PATENT-APPL-SN-942559	c 27	N70-35534 *
US-PATENT-APPL-SN-889555	c 09	N72-17154 *	US-PATENT-APPL-SN-913433	c 33	N87-15413 *	US-PATENT-APPL-SN-943086	c 37	N80-32717 *
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US-PATENT-APPL-SN-889557	c 11	N72-17183 *	US-PATENT-APPL-SN-914260	c 44	N79-26474 *	US-PATENT-APPL-SN-943088	c 18	N80-14183 *
US-PATENT-APPL-SN-889558	c 15	N72-22491 *	US-PATENT-APPL-SN-914905	c 09	N92-34213 *	US-PATENT-APPL-SN-943089	c 74	N80-21140 *
US-PATENT-APPL-SN-889583	c 15	N72-21464 *	US-PATENT-APPL-SN-915050	c 44	N81-12542 *	US-PATENT-APPL-SN-943346	c 34	N88-29132 *
US-PATENT-APPL-SN-889584	c 08	N72-31226 *	US-PATENT-APPL-SN-916842	c 14	N72-31446 *	US-PATENT-APPL-SN-943447	c 05	N72-25122 *
US-PATENT-APPL-SN-889670	c 39	N79-22537 *	US-PATENT-APPL-SN-916654	c 07	N81-29129 *	US-PATENT-APPL-SN-943659	c 02	N92-34243 *
US-PATENT-APPL-SN-889671	c 24	N81-14000 *	US-PATENT-APPL-SN-916655	c 44	N80-14472 *	US-PATENT-APPL-SN-94369	c 07	N71-28965 *
US-PATENT-APPL-SN-889671	c 24	N81-33235 *	US-PATENT-APPL-SN-917125	c 35	N89-12048 *	US-PATENT-APPL-SN-94374	c 14	N72-25411 *
US-PATENT-APPL-SN-889682	c 15	N72-25447 *	US-PATENT-APPL-SN-917554	c 37	N92-34205 *	US-PATENT-APPL-SN-945040	c 37	N82-24492 *
US-PATENT-APPL-SN-890445	c 18	N87-27713 *	US-PATENT-APPL-SN-918533	c 32	N79-23310 *	US-PATENT-APPL-SN-945041	c 43	N80-18498 *
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US-PATENT-APPL-SN-890577	c 27	N88-29040 *	US-PATENT-APPL-SN-918535	c 35	N80-18357 *	US-PATENT-APPL-SN-945044	c 54	N81-26718 *
US-PATENT-APPL-SN-890586	c 32	N87-15390 *	US-PATENT-APPL-SN-918537	c 26	N80-14229 *	US-PATENT-APPL-SN-945436	c 46	N80-24906 *
US-PATENT-APPL-SN-890683	c 37	N88-23981 *	US-PATENT-APPL-SN-918705	c 52	N82-33996 *	US-PATENT-APPL-SN-946990	c 28	N80-23471 *
US-PATENT-APPL-SN-890982	c 35	N88-29150 *	US-PATENT-APPL-SN-920878	c 24	N78-27184 *	US-PATENT-APPL-SN-946991	c 31	N81-27324 *
US-PATENT-APPL-SN-891243	c 44	N79-25482 *	US-PATENT-APPL-SN-920879	c 44	N79-31752 *	US-PATENT-APPL-SN-946992	c 45	N80-14579 *
US-PATENT-APPL-SN-891244	c 05	N79-24976 *	US-PATENT-APPL-SN-921572	c 24	N90-25196 *	US-PATENT-APPL-SN-946994	c 44	N79-31753 *
US-PATENT-APPL-SN-891356	c 35	N80-18359 *	US-PATENT-APPL-SN-921572	c 24	N91-25199 *	US-PATENT-APPL-SN-947000	c 28	N81-15119 *
US-PATENT-APPL-SN-891358	c 44	N80-14474 *	US-PATENT-APPL-SN-921573	c 37	N87-14704 *	US-PATENT-APPL-SN-94952	c 14	N70-34158 *
US-PATENT-APPL-SN-891370	c 20	N79-20179 *	US-PATENT-APPL-SN-921574	c 31	N90-19425 *	US-PATENT-APPL-SN-949886	c 33	N80-18285 *
US-PATENT-APPL-SN-891372	c 37	N79-22474 *	US-PATENT-APPL-SN-921576	c 33	N91-31530 *	US-PATENT-APPL-SN-950876	c 37	N80-31790 *
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US-PATENT-APPL-SN-891872	c 25	N82-24312 *	US-PATENT-APPL-SN-921627	c 33	N80-14332 *	US-PATENT-APPL-SN-951423	c 48	N80-18667 *
US-PATENT-APPL-SN-892053	c 37	N92-30026 *	US-PATENT-APPL-SN-923758	c 20	N78-27176 *	US-PATENT-APPL-SN-951828	c 37	N80-29703 *
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US-PATENT-APPL-S								

US-PATENT-APPL-SN-953314	c 37	N81-14319 *	US-PATENT-CLASS-101-407BP	c 37	N84-12491 *	US-PATENT-CLASS-106-299	c 18	N72-17532 *
US-PATENT-APPL-SN-953389	c 74	N80-27185 *	US-PATENT-CLASS-102-101	c 28	N71-26779 *	US-PATENT-CLASS-106-299	c 27	N77-30237 *
US-PATENT-APPL-SN-953390	c 74	N80-21138 *	US-PATENT-CLASS-102-103	c 20	N78-32179 *	US-PATENT-CLASS-106-306	c 24	N76-24363 *
US-PATENT-APPL-SN-953391	c 72	N80-33186 *	US-PATENT-CLASS-102-105	c 33	N72-17947 *	US-PATENT-CLASS-106-39.5	c 27	N78-19302 *
US-PATENT-APPL-SN-956160	c 32	N80-18253 *	US-PATENT-CLASS-102-105	c 33	N72-25911 *	US-PATENT-CLASS-106-39R	c 18	N73-14584 *
US-PATENT-APPL-SN-956161	c 27	N79-11215 *	US-PATENT-CLASS-102-105	c 33	N73-25952 *	US-PATENT-CLASS-106-39	c 26	N72-28762 *
US-PATENT-APPL-SN-956166	c 33	N81-19393 *	US-PATENT-CLASS-102-105	c 27	N74-27037 *	US-PATENT-CLASS-106-40	c 18	N71-22998 *
US-PATENT-APPL-SN-956168	c 23	N81-25209 *	US-PATENT-CLASS-102-105	c 24	N79-25142 *	US-PATENT-CLASS-106-43	c 27	N78-17206 *
US-PATENT-APPL-SN-956529	c 35	N80-26635 *	US-PATENT-CLASS-102-200	c 25	N91-32196 *	US-PATENT-CLASS-106-43	c 37	N81-25371 *
US-PATENT-APPL-SN-957452	c 32	N80-24510 *	US-PATENT-CLASS-102-21.6	c 46	N79-22679 *	US-PATENT-CLASS-106-46	c 26	N72-28762 *
US-PATENT-APPL-SN-958573	c 25	N80-20334 *	US-PATENT-CLASS-102-262	c 03	N91-15142 *	US-PATENT-CLASS-106-48	c 27	N75-27160 *
US-PATENT-APPL-SN-958575	c 27	N80-24437 *	US-PATENT-CLASS-102-28EB	c 28	N74-27425 *	US-PATENT-CLASS-106-48	c 27	N78-32260 *
US-PATENT-APPL-SN-961831	c 33	N81-25299 *	US-PATENT-CLASS-102-28R	c 28	N79-11231 *	US-PATENT-CLASS-106-50	c 27	N82-29452 *
US-PATENT-APPL-SN-961832	c 37	N81-24442 *	US-PATENT-CLASS-102-289	c 27	N82-24339 *	US-PATENT-CLASS-106-50	c 27	N82-29454 *
US-PATENT-APPL-SN-961833	c 37	N82-21587 *	US-PATENT-CLASS-102-34.4	c 07	N72-25171 *	US-PATENT-CLASS-106-50	c 27	N82-29455 *
US-PATENT-APPL-SN-964009	c 02	N80-20224 *	US-PATENT-CLASS-102-378	c 01	N83-35992 *	US-PATENT-CLASS-106-52	c 37	N74-21063 *
US-PATENT-APPL-SN-964754	c 33	N80-20487 *	US-PATENT-CLASS-102-378	c 37	N90-21390 *	US-PATENT-CLASS-106-52	c 27	N82-29451 *
US-PATENT-APPL-SN-964754	c 44	N81-29524 *	US-PATENT-CLASS-102-378	c 37	N91-32498 *	US-PATENT-CLASS-106-52	c 27	N82-29452 *
US-PATENT-APPL-SN-965367	c 33	N81-14221 *	US-PATENT-CLASS-102-39	c 20	N78-24275 *	US-PATENT-CLASS-106-52	c 27	N82-29454 *
US-PATENT-APPL-SN-965368	c 74	N81-17888 *	US-PATENT-CLASS-102-49.3	c 20	N77-17143 *	US-PATENT-CLASS-106-52	c 27	N82-29455 *
US-PATENT-APPL-SN-969755	c 05	N81-19087 *	US-PATENT-CLASS-102-49.5	c 31	N71-15687 *	US-PATENT-CLASS-106-54	c 27	N75-27160 *
US-PATENT-APPL-SN-969756	c 37	N81-14317 *	US-PATENT-CLASS-102-49.5	c 15	N71-22874 *	US-PATENT-CLASS-106-54	c 27	N76-22377 *
US-PATENT-APPL-SN-969757	c 24	N84-16262 *	US-PATENT-CLASS-102-49.5	c 31	N71-23008 *	US-PATENT-CLASS-106-54	c 27	N76-23426 *
US-PATENT-APPL-SN-969759	c 25	N82-11144 *	US-PATENT-CLASS-102-49.5	c 31	N73-14653 *	US-PATENT-CLASS-106-54	c 27	N78-32260 *
US-PATENT-APPL-SN-969760	c 39	N81-25400 *	US-PATENT-CLASS-102-49.7	c 28	N73-24784 *	US-PATENT-CLASS-106-54	c 27	N82-29452 *
US-PATENT-APPL-SN-969761	c 32	N82-12297 *	US-PATENT-CLASS-102-49.7	c 20	N78-24275 *	US-PATENT-CLASS-106-54	c 27	N82-29454 *
US-PATENT-APPL-SN-969762	c 33	N82-29539 *	US-PATENT-CLASS-102-49.8	c 28	N73-24784 *	US-PATENT-CLASS-106-55	c 18	N73-14584 *
US-PATENT-APPL-SN-97112	c 21	N70-34539 *	US-PATENT-CLASS-102-49	c 33	N70-36846 *	US-PATENT-CLASS-106-58	c 18	N73-14584 *
US-PATENT-APPL-SN-971473	c 23	N81-29160 *	US-PATENT-CLASS-102-49	c 28	N70-38181 *	US-PATENT-CLASS-106-63	c 18	N73-14584 *
US-PATENT-APPL-SN-971474	c 20	N82-18314 *	US-PATENT-CLASS-102-49	c 03	N70-39300 *	US-PATENT-CLASS-106-65	c 27	N78-19302 *
US-PATENT-APPL-SN-971475	c 27	N81-24257 *	US-PATENT-CLASS-102-49	c 15	N70-41679 *	US-PATENT-CLASS-106-73.5	c 27	N78-19302 *
US-PATENT-APPL-SN-971596	c 27	N80-32516 *	US-PATENT-CLASS-102-49	c 28	N70-41967 *	US-PATENT-CLASS-106-74	c 18	N69-39979 *
US-PATENT-APPL-SN-972252	c 35	N81-33448 *	US-PATENT-CLASS-102-49	c 31	N71-10582 *	US-PATENT-CLASS-106-74	c 24	N79-31347 *
US-PATENT-APPL-SN-97343	c 10	N72-27246 *	US-PATENT-CLASS-102-49	c 15	N71-13789 *	US-PATENT-CLASS-106-84	c 18	N71-24183 *
US-PATENT-APPL-SN-974292	c 26	N80-23419 *	US-PATENT-CLASS-102-49	c 31	N71-15692 *	US-PATENT-CLASS-106-84	c 18	N71-24184 *
US-PATENT-APPL-SN-974471	c 32	N81-14185 *	US-PATENT-CLASS-102-49	c 31	N71-17730 *	US-PATENT-CLASS-106-84	c 18	N72-22566 *
US-PATENT-APPL-SN-974472	c 37	N81-15363 *	US-PATENT-CLASS-102-50.4	c 15	N82-24272 *	US-PATENT-CLASS-106-84	c 18	N72-23581 *
US-PATENT-APPL-SN-974473	c 60	N81-27814 *	US-PATENT-CLASS-102-50	c 31	N71-24750 *	US-PATENT-CLASS-106-84	c 24	N79-14156 *
US-PATENT-APPL-SN-974474	c 25	N81-19242 *	US-PATENT-CLASS-102-56R	c 02	N81-14968 *	US-PATENT-CLASS-106-84	c 24	N79-31347 *
US-PATENT-APPL-SN-974475	c 33	N81-17349 *	US-PATENT-CLASS-102-70.2A	c 28	N74-27425 *	US-PATENT-CLASS-106-88	c 18	N71-16124 *
US-PATENT-APPL-SN-974476	c 52	N81-14613 *	US-PATENT-CLASS-102-70.2R	c 19	N74-15089 *	US-PATENT-CLASS-108-136	c 09	N75-12968 *
US-PATENT-APPL-SN-97472	c 14	N73-28487 *	US-PATENT-CLASS-102-70.2	c 09	N71-18599 *	US-PATENT-CLASS-108-3	c 54	N88-24163 *
US-PATENT-APPL-SN-97829	c 06	N73-13129 *	US-PATENT-CLASS-102-70.2R	c 28	N74-27425 *	US-PATENT-CLASS-108-7	c 54	N88-24163 *
US-PATENT-APPL-SN-98517	c 09	N72-25250 *	US-PATENT-CLASS-102-70R	c 20	N78-24275 *	US-PATENT-CLASS-109-49.5	c 31	N81-19343 *
US-PATENT-APPL-SN-98640	c 09	N72-25253 *	US-PATENT-CLASS-102-90	c 15	N74-27360 *	US-PATENT-CLASS-109-58.5	c 31	N81-19343 *
US-PATENT-APPL-SN-98772	c 08	N73-12176 *	US-PATENT-CLASS-102-91	c 02	N81-14968 *	US-PATENT-CLASS-110-165R	c 31	N91-15423 *
US-PATENT-APPL-SN-98773	c 15	N72-22486 *	US-PATENT-CLASS-102-95	c 11	N73-32152 *	US-PATENT-CLASS-110-171	c 31	N91-15423 *
US-PATENT-APPL-SN-98774	c 14	N73-19419 *	US-PATENT-CLASS-102-99	c 28	N77-10213 *	US-PATENT-CLASS-110-186	c 25	N84-16276 *
US-PATENT-APPL-SN-98798	c 09	N73-13209 *	US-PATENT-CLASS-103.5R	c 04	N73-27052 *	US-PATENT-CLASS-110-218	c 31	N81-15154 *
US-PATENT-APPL-SN-99174	c 14	N72-33377 *	US-PATENT-CLASS-103-1	c 26	N71-21824 *	US-PATENT-CLASS-110-229	c 31	N81-15154 *
US-PATENT-APPL-SN-99175	c 09	N72-25258 *	US-PATENT-CLASS-103-37	c 28	N71-14058 *	US-PATENT-CLASS-110-232	c 31	N81-15154 *
US-PATENT-APPL-SN-99198	c 31	N73-32749 *	US-PATENT-CLASS-103-48	c 15	N71-24042 *	US-PATENT-CLASS-110-234	c 25	N82-11144 *
US-PATENT-APPL-SN-99201	c 15	N73-25512 *	US-PATENT-CLASS-104-DIG.4	c 44	N84-23019 *	US-PATENT-CLASS-110-245	c 25	N82-11144 *
US-PATENT-APPL-SN-99201	c 37	N74-20063 *	US-PATENT-CLASS-104-138R	c 85	N74-34672 *	US-PATENT-CLASS-110-255	c 25	N82-11144 *
US-PATENT-APPL-SN-99524	c 06	N72-27144 *	US-PATENT-CLASS-104-139	c 05	N71-28619 *	US-PATENT-CLASS-110-259	c 31	N91-15423 *
US-PATENT-APPL-SN-99901	c 37	N74-10474 *	US-PATENT-CLASS-104-172.1	c 18	N88-26398 *	US-PATENT-CLASS-110-262	c 25	N84-16276 *
US-PATENT-APPL-SN-99903	c 11	N73-12265 *	US-PATENT-CLASS-104-1	c 05	N71-28619 *	US-PATENT-CLASS-110-263	c 25	N84-16276 *
			US-PATENT-CLASS-104-23FS	c 85	N74-34672 *	US-PATENT-CLASS-110-265	c 25	N84-16276 *
US-PATENT-APPL-156-241	c 31	N92-33020 *	US-PATENT-CLASS-104-281	c 37	N85-20337 *	US-PATENT-CLASS-110-266	c 25	N82-11144 *
US-PATENT-APPL-156-285	c 31	N92-33020 *	US-PATENT-CLASS-104-282	c 37	N83-32067 *	US-PATENT-CLASS-110-343	c 31	N81-15154 *
US-PATENT-APPL-156-293	c 31	N92-33020 *	US-PATENT-CLASS-104-284	c 37	N85-20337 *	US-PATENT-CLASS-110-347	c 31	N81-15154 *
US-PATENT-APPL-264-272.15	c 31	N92-33020 *	US-PATENT-CLASS-104-290	c 37	N83-32067 *	US-PATENT-CLASS-112-402	c 18	N71-26285 *
US-PATENT-APPL-29-856	c 31	N92-33020 *	US-PATENT-CLASS-104-35	c 18	N88-26398 *	US-PATENT-CLASS-112-440	c 24	N91-31236 *
			US-PATENT-CLASS-104-49	c 18	N88-26398 *	US-PATENT-CLASS-113-116	c 15	N71-15597 *
US-PATENT-CASE-165-104.25	c 34	N87-28867 *	US-PATENT-CLASS-104-83	c 37	N82-21587 *	US-PATENT-CLASS-114-112	c 18	N90-19278 *
US-PATENT-CASE-165-104.26	c 34	N87-28867 *	US-PATENT-CLASS-105-1A	c 37	N82-21587 *	US-PATENT-CLASS-114-122	c 02	N73-26006 *
US-PATENT-CASE-165-13	c 34	N87-28867 *	US-PATENT-CLASS-105-124	c 37	N91-32514 *	US-PATENT-CLASS-114-122	c 34	N91-25380 *
US-PATENT-CASE-165-1	c 34	N87-28867 *	US-PATENT-CLASS-105-141	c 37	N91-32514 *	US-PATENT-CLASS-114-125	c 34	N91-25380 *
US-PATENT-CASE-165-32	c 34	N87-28867 *	US-PATENT-CLASS-105-142	c 37	N91-32514 *	US-PATENT-CLASS-114-16.6	c 37	N76-22540 *
US-PATENT-CASE-165-41	c 34	N87-28867 *	US-PATENT-CLASS-105-161	c 43	N79-26439 *	US-PATENT-CLASS-114-201R	c 18	N90-19278 *
US-PATENT-CASE-179-146-R	c 05	N83-27975 *	US-PATENT-CLASS-105-171	c 37	N82-21587 *	US-PATENT-CLASS-114-66.5	c 12	N70-33305 *
US-PATENT-CASE-179-179	c 05	N83-27975 *	US-PATENT-CLASS-105-180	c 37	N82-21587 *	US-PATENT-CLASS-114-67A	c 34	N91-14562 *
US-PATENT-CASE-244-121	c 05	N83-19737 *	US-PATENT-CLASS-105-2R	c 85	N82-33288 *	US-PATENT-CLASS-114-67R	c 02	N88-14071 *
US-PATENT-CASE-244-129.4	c 05	N83-19737 *	US-PATENT-CLASS-105-218R	c 37	N82-21587 *	US-PATENT-CLASS-115-103.5	c 51	N75-13502 *
US-PATENT-CASE-292-254	c 05	N83-19737 *	US-PATENT-CLASS-105-87	c 37	N91-32514 *	US-PATENT-CLASS-116-DIG.43	c 02	N89-12551 *
US-PATENT-CASE-356-129	c 36	N83-29680 *	US-PATENT-CLASS-106-1.2	c 44	N79-31752 *	US-PATENT-CLASS-116-114.5	c 35	N75-25122 *
US-PATENT-CASE-367-906	c 05	N83-27975 *	US-PATENT-CLASS-106-13	c 23	N75-14834 *	US-PATENT-CLASS-116-114AH	c 14	N72-25411 *
US-PATENT-CASE-368-10	c 35	N83-29651 *	US-PATENT-CLASS-106-15FP	c 27	N74-27037 *	US-PATENT-CLASS-116-114AH	c 35	N75-33367 *
US-PATENT-CASE-368-118	c 35	N83-29651 *	US-PATENT-CLASS-106-15FP	c 27	N76-24405 *	US-PATENT-CLASS-116-117	c 14	N70-42074 *
US-PATENT-CASE-368-119	c 35	N83-29651 *	US-PATENT-CLASS-106-15R	c 23	N75-14834 *	US-PATENT-CLASS-116-201	c 02	N92-21588 *
US-PATENT-CASE-368-120	c 35	N83-29651 *	US-PATENT-CLASS-106-15R	c 23	N75-14834 *	US-PATENT-CLASS-116-207	c 02	N92-21588 *
US-PATENT-CASE-368-6	c 35	N83-29651 *	US-PATENT-CLASS-106-15	c 18	N71-14014 *	US-PATENT-CLASS-116-265	c 02	N89-12551 *
US-PATENT-CASE-368-9	c 35	N83-29651 *	US-PATENT-CLASS-106-16	c 18	N71-15469 *	US-PATENT-CLASS-117-104	c 18	N71-26100 *
			US-PATENT-CLASS-106-18.16	c 27	N82-16238 *	US-PATENT-CLASS-117-105.2	c 37	N74-11301 *
US-PATENT-CLAS-165-27	c 34	N83-34221 *	US-PATENT-CLASS-106-18.24	c 27	N82-16238 *	US-PATENT-CLASS-117-105.2	c 24	N75-33181 *
US-PATENT-CLAS-361-90	c 33	N83-34190 *	US-PATENT-CLASS-106-197	c 25	N82-29370 *	US-PATENT-CLASS-117-105.5	c 15	N73-32360 *
			US-PATENT-CLASS-106-1	c 44	N79-31752 *	US-PATENT-CLASS-117-105	c 15	N73-32360 *
US-PATENT-CLASS-DIG.4	c 37	N91-21543 *	US-PATENT-CLASS-106-209	c 05	N72-25120 *	US-PATENT-CLASS-117-106A	c 70	N74-13436 *
			US-PATENT-CLASS-106-286	c 18	N72-22566 *	US-PATENT-CLASS-117-106A	c 37	N75-15992 *
US-PATENT-CLASS-D12-76	c 05	N75-25914 *	US-PATENT-CLASS-106-287SB	c 23	N75-14834 *	US-PATENT-CLASS-117-106A	c 25	N75-26043 *
US-PATENT-CLASS-D71-1	c 05	N74-10907 *	US-PATENT-CLASS-106-288B	c 18	N72-22566 *	US-PATENT-CLASS-117-106	c 33	N71-14032 *
			US-PATENT-CLASS-106-292	c 18	N72-17532 *	US-PATENT-CLASS-117-107.2	c 25	N75-26043 *
US-PATENT-CLASS-073-801	c 26	N90-21170 *	US-PATENT-CLASS-106-292	c 27	N77-30237 *	US-PATENT-CLASS-117-107	c 15	N72-25447 *
US-PATENT-CLASS-100-299	c 15	N72-20446 *	US-PATENT-CLASS-106-296	c 18	N71-26772 *	US-PATENT-CLASS-117-107	c 76	N79-16678 *
US-PATENT-CLASS-100-8	c 33	N74-17928 *	US-PATENT-CLASS-106-296	c 27	N77-30237 *	US-PATENT-CLASS-117-119	c 18	N71-16105 *
US-PATENT-CLASS-101-395	c 35	N84-22930 *	US-PATENT-CLASS-106-296	c 24	N79-14156 *	US-PATENT-CLASS-117-119	c 76	N79-16678 *

US-PATENT-CLASS-117-124C	c 15	N72-25452 *	US-PATENT-CLASS-118-503	c 37	N82-24492 *	US-PATENT-CLASS-126-270	c 44	N78-15560 *
US-PATENT-CLASS-117-124F	c 23	N75-14834 *	US-PATENT-CLASS-118-505	c 37	N82-24492 *	US-PATENT-CLASS-126-270	c 44	N78-19599 *
US-PATENT-CLASS-117-126GM	c 37	N75-26371 *	US-PATENT-CLASS-118-50	c 37	N78-17383 *	US-PATENT-CLASS-126-270	c 44	N78-31526 *
US-PATENT-CLASS-117-126GR	c 27	N74-23125 *	US-PATENT-CLASS-118-50	c 37	N81-33482 *	US-PATENT-CLASS-126-270	c 44	N79-11471 *
US-PATENT-CLASS-117-126R	c 37	N75-26371 *	US-PATENT-CLASS-118-50	c 71	N84-16940 *	US-PATENT-CLASS-126-270	c 44	N79-14526 *
US-PATENT-CLASS-117-129	c 37	N74-21063 *	US-PATENT-CLASS-118-52	c 37	N81-33482 *	US-PATENT-CLASS-126-270	c 44	N79-23481 *
US-PATENT-CLASS-117-129	c 27	N75-27160 *	US-PATENT-CLASS-118-57	c 71	N84-16940 *	US-PATENT-CLASS-126-270	c 44	N79-24432 *
US-PATENT-CLASS-117-130R	c 15	N73-32360 *	US-PATENT-CLASS-118-624	c 36	N84-22944 *	US-PATENT-CLASS-126-271	c 44	N75-32581 *
US-PATENT-CLASS-117-132B	c 27	N74-23125 *	US-PATENT-CLASS-118-62	c 71	N84-16940 *	US-PATENT-CLASS-126-271	c 44	N76-14602 *
US-PATENT-CLASS-117-132	c 06	N72-25150 *	US-PATENT-CLASS-118-641	c 36	N84-22944 *	US-PATENT-CLASS-126-271	c 44	N76-22657 *
US-PATENT-CLASS-117-135.5	c 23	N75-14834 *	US-PATENT-CLASS-118-6	c 51	N77-27677 *	US-PATENT-CLASS-126-271	c 44	N76-24696 *
US-PATENT-CLASS-117-138.8R	c 15	N73-32360 *	US-PATENT-CLASS-118-7	c 51	N77-27677 *	US-PATENT-CLASS-126-271	c 35	N77-20401 *
US-PATENT-CLASS-117-151	c 15	N73-32360 *	US-PATENT-CLASS-118-9	c 51	N77-27677 *	US-PATENT-CLASS-126-271	c 44	N77-32582 *
US-PATENT-CLASS-117-152	c 15	N72-25452 *	US-PATENT-CLASS-119-15	c 11	N71-22875 *	US-PATENT-CLASS-126-271	c 44	N78-10554 *
US-PATENT-CLASS-117-16R	c 15	N72-25452 *	US-PATENT-CLASS-119-17	c 51	N81-32829 *	US-PATENT-CLASS-126-271	c 44	N78-17460 *
US-PATENT-CLASS-117-16OR	c 15	N73-32360 *	US-PATENT-CLASS-119-18	c 51	N81-32829 *	US-PATENT-CLASS-126-271	c 44	N78-31525 *
US-PATENT-CLASS-117-161P	c 06	N73-27980 *	US-PATENT-CLASS-119-29	c 51	N78-27733 *	US-PATENT-CLASS-126-271	c 44	N78-31526 *
US-PATENT-CLASS-117-161UA	c 25	N75-12087 *	US-PATENT-CLASS-119-51.11	c 35	N78-19466 *	US-PATENT-CLASS-126-271	c 44	N79-11471 *
US-PATENT-CLASS-117-161UN	c 06	N73-27980 *	US-PATENT-CLASS-119-51.13	c 51	N74-15778 *	US-PATENT-CLASS-126-271	c 44	N79-14526 *
US-PATENT-CLASS-117-161UN	c 27	N74-23125 *	US-PATENT-CLASS-119-51.5	c 51	N74-15778 *	US-PATENT-CLASS-126-271	c 44	N79-14529 *
US-PATENT-CLASS-117-161UN	c 25	N75-12087 *	US-PATENT-CLASS-119-51R	c 51	N74-15778 *	US-PATENT-CLASS-126-271	c 44	N79-18443 *
US-PATENT-CLASS-117-161UZ	c 25	N75-12087 *	US-PATENT-CLASS-119-52AF	c 51	N74-15778 *	US-PATENT-CLASS-126-271	c 44	N79-23481 *
US-PATENT-CLASS-117-161	c 06	N72-25150 *	US-PATENT-CLASS-119-54	c 51	N74-15778 *	US-PATENT-CLASS-126-271	c 44	N79-24433 *
US-PATENT-CLASS-117-2R	c 32	N74-27612 *	US-PATENT-CLASS-119-72.5	c 35	N78-19466 *	US-PATENT-CLASS-126-400	c 44	N78-15560 *
US-PATENT-CLASS-117-200	c 09	N72-25259 *	US-PATENT-CLASS-119-96	c 05	N71-28619 *	US-PATENT-CLASS-126-400	c 44	N79-24433 *
US-PATENT-CLASS-117-201	c 15	N69-21460 *	US-PATENT-CLASS-121-38	c 15	N70-35409 *	US-PATENT-CLASS-126-400	c 44	N85-30474 *
US-PATENT-CLASS-117-201	c 18	N71-16046 *	US-PATENT-CLASS-121-38	c 02	N71-29128 *	US-PATENT-CLASS-126-415	c 44	N84-34792 *
US-PATENT-CLASS-117-201	c 03	N72-24037 *	US-PATENT-CLASS-122-32	c 33	N72-20915 *	US-PATENT-CLASS-126-415	c 44	N85-30474 *
US-PATENT-CLASS-117-201	c 25	N75-26043 *	US-PATENT-CLASS-122-366	c 34	N85-29180 *	US-PATENT-CLASS-126-417	c 44	N80-16452 *
US-PATENT-CLASS-117-211	c 15	N72-25447 *	US-PATENT-CLASS-122-366	c 34	N86-27593 *	US-PATENT-CLASS-126-417	c 34	N84-22903 *
US-PATENT-CLASS-117-212	c 09	N71-20705 *	US-PATENT-CLASS-122-366	c 34	N88-29133 *	US-PATENT-CLASS-126-418	c 44	N84-28204 *
US-PATENT-CLASS-117-212	c 15	N71-29032 *	US-PATENT-CLASS-122-366	c 34	N89-14392 *	US-PATENT-CLASS-126-418	c 44	N86-27706 *
US-PATENT-CLASS-117-212	c 26	N72-28762 *	US-PATENT-CLASS-122-366	c 27	N90-23541 *	US-PATENT-CLASS-126-419	c 44	N80-20810 *
US-PATENT-CLASS-117-217	c 15	N72-25447 *	US-PATENT-CLASS-122-366	c 31	N90-23587 *	US-PATENT-CLASS-126-419	c 44	N81-17518 *
US-PATENT-CLASS-117-217	c 26	N72-28762 *	US-PATENT-CLASS-122-4D	c 25	N82-11144 *	US-PATENT-CLASS-126-419	c 44	N84-28203 *
US-PATENT-CLASS-117-21	c 18	N69-39895 *	US-PATENT-CLASS-123-DIG.12	c 37	N76-18457 *	US-PATENT-CLASS-126-419	c 44	N85-30474 *
US-PATENT-CLASS-117-224	c 15	N71-28582 *	US-PATENT-CLASS-123-DIG.12	c 44	N78-33526 *	US-PATENT-CLASS-126-419	c 44	N86-27706 *
US-PATENT-CLASS-117-228	c 06	N73-27980 *	US-PATENT-CLASS-123-DIG.12	c 28	N80-10374 *	US-PATENT-CLASS-126-422	c 44	N82-18686 *
US-PATENT-CLASS-117-234	c 76	N79-16678 *	US-PATENT-CLASS-123-DIG.8	c 37	N77-31497 *	US-PATENT-CLASS-126-423	c 34	N88-23958 *
US-PATENT-CLASS-117-235	c 76	N79-16678 *	US-PATENT-CLASS-123-1A	c 44	N76-29700 *	US-PATENT-CLASS-126-425	c 44	N88-14492 *
US-PATENT-CLASS-117-237	c 76	N79-16678 *	US-PATENT-CLASS-123-1A	c 44	N78-33526 *	US-PATENT-CLASS-126-429	c 44	N82-18686 *
US-PATENT-CLASS-117-239	c 76	N79-16678 *	US-PATENT-CLASS-123-102	c 11	N72-20244 *	US-PATENT-CLASS-126-430	c 44	N82-18686 *
US-PATENT-CLASS-117-240	c 76	N79-16678 *	US-PATENT-CLASS-123-119A	c 37	N77-31497 *	US-PATENT-CLASS-126-433	c 44	N92-29143 *
US-PATENT-CLASS-117-33.3	c 70	N74-13436 *	US-PATENT-CLASS-123-119E	c 37	N76-18457 *	US-PATENT-CLASS-126-434	c 44	N80-20810 *
US-PATENT-CLASS-117-35R	c 06	N73-13128 *	US-PATENT-CLASS-123-120	c 37	N76-18457 *	US-PATENT-CLASS-126-436	c 44	N92-29143 *
US-PATENT-CLASS-117-35	c 32	N79-19186 *	US-PATENT-CLASS-123-121	c 37	N76-18457 *	US-PATENT-CLASS-126-437	c 44	N80-20810 *
US-PATENT-CLASS-117-37	c 15	N72-25452 *	US-PATENT-CLASS-123-122AB	c 28	N72-22772 *	US-PATENT-CLASS-126-438	c 44	N80-14473 *
US-PATENT-CLASS-117-38	c 24	N75-33181 *	US-PATENT-CLASS-123-122AB	c 37	N77-31497 *	US-PATENT-CLASS-126-438	c 44	N82-16475 *
US-PATENT-CLASS-117-43	c 31	N79-21227 *	US-PATENT-CLASS-123-122E	c 07	N77-23106 *	US-PATENT-CLASS-126-438	c 44	N84-28203 *
US-PATENT-CLASS-117-45	c 74	N74-20008 *	US-PATENT-CLASS-123-122E	c 37	N78-10467 *	US-PATENT-CLASS-126-438	c 44	N84-28204 *
US-PATENT-CLASS-117-46FS	c 24	N75-33181 *	US-PATENT-CLASS-123-148CB	c 33	N77-28385 *	US-PATENT-CLASS-126-438	c 44	N86-27706 *
US-PATENT-CLASS-117-46	c 15	N71-16077 *	US-PATENT-CLASS-123-148DC	c 37	N79-11405 *	US-PATENT-CLASS-126-440	c 44	N84-28204 *
US-PATENT-CLASS-117-47R	c 15	N72-25452 *	US-PATENT-CLASS-123-148E	c 33	N77-28385 *	US-PATENT-CLASS-126-442	c 44	N80-14473 *
US-PATENT-CLASS-117-50	c 15	N71-15610 *	US-PATENT-CLASS-123-148E	c 37	N79-11405 *	US-PATENT-CLASS-126-443	c 35	N89-12048 *
US-PATENT-CLASS-117-62	c 15	N72-25447 *	US-PATENT-CLASS-123-179R	c 28	N80-10374 *	US-PATENT-CLASS-126-451	c 44	N84-28203 *
US-PATENT-CLASS-117-62	c 15	N72-25452 *	US-PATENT-CLASS-123-193-P	c 37	N88-23981 *	US-PATENT-CLASS-126-900	c 44	N85-30474 *
US-PATENT-CLASS-117-65.2	c 18	N71-10772 *	US-PATENT-CLASS-123-193P	c 37	N90-22042 *	US-PATENT-CLASS-126-901	c 44	N80-16452 *
US-PATENT-CLASS-117-66	c 15	N73-32360 *	US-PATENT-CLASS-123-197R	c 37	N83-36483 *	US-PATENT-CLASS-126-901	c 44	N83-34449 *
US-PATENT-CLASS-117-69	c 18	N70-36400 *	US-PATENT-CLASS-123-37	c 37	N77-31497 *	US-PATENT-CLASS-126-901	c 35	N89-12048 *
US-PATENT-CLASS-117-69	c 15	N71-16075 *	US-PATENT-CLASS-123-3	c 44	N76-18642 *	US-PATENT-CLASS-126-91A	c 25	N79-11151 *
US-PATENT-CLASS-117-6	c 14	N71-20461 *	US-PATENT-CLASS-123-3	c 44	N76-29700 *	US-PATENT-CLASS-128-2.06E	c 05	N75-24716 *
US-PATENT-CLASS-117-6	c 27	N81-15104 *	US-PATENT-CLASS-123-3	c 44	N77-10636 *	US-PATENT-CLASS-128-2.07	c 52	N79-21750 *
US-PATENT-CLASS-117-72	c 35	N75-25122 *	US-PATENT-CLASS-123-3	c 37	N77-31497 *	US-PATENT-CLASS-128-DIG.12	c 37	N77-28487 *
US-PATENT-CLASS-117-8.5	c 24	N75-33181 *	US-PATENT-CLASS-123-3	c 44	N78-33526 *	US-PATENT-CLASS-128-DIG.12	c 51	N81-14605 *
US-PATENT-CLASS-117-93.1GD	c 25	N75-12087 *	US-PATENT-CLASS-123-3	c 28	N80-10374 *	US-PATENT-CLASS-128-DIG.13	c 52	N83-27577 *
US-PATENT-CLASS-117-93.16D	c 15	N72-25447 *	US-PATENT-CLASS-123-41.33	c 07	N77-23106 *	US-PATENT-CLASS-128-DIG.16	c 51	N81-14605 *
US-PATENT-CLASS-117-93.3	c 15	N72-25452 *	US-PATENT-CLASS-123-41.33	c 37	N78-10467 *	US-PATENT-CLASS-128-DIG.20	c 52	N76-19785 *
US-PATENT-CLASS-117-93.3	c 37	N75-15992 *	US-PATENT-CLASS-123-59E	c 37	N77-31497 *	US-PATENT-CLASS-128-DIG.20	c 37	N81-17433 *
US-PATENT-CLASS-117-95	c 24	N74-19769 *	US-PATENT-CLASS-123-78E	c 37	N83-36483 *	US-PATENT-CLASS-128-DIG.25	c 52	N81-25660 *
US-PATENT-CLASS-117-95	c 36	N75-15029 *	US-PATENT-CLASS-123-89A	c 37	N76-18457 *	US-PATENT-CLASS-128-DIG.25	c 52	N84-11744 *
US-PATENT-CLASS-117-97	c 36	N75-15029 *	US-PATENT-CLASS-124-11R	c 75	N76-17951 *	US-PATENT-CLASS-128-DIG.26	c 51	N81-14605 *
US-PATENT-CLASS-118-DIG.5	c 24	N92-10070 *	US-PATENT-CLASS-124-1	c 75	N76-17951 *	US-PATENT-CLASS-128-DIG.4	c 05	N72-27103 *
US-PATENT-CLASS-118-11	c 15	N71-17647 *	US-PATENT-CLASS-124-3	c 14	N92-15081 *	US-PATENT-CLASS-128-DIG.4	c 05	N75-24716 *
US-PATENT-CLASS-118-300	c 71	N84-16940 *	US-PATENT-CLASS-124-56	c 18	N86-20469 *	US-PATENT-CLASS-128-DIG.4	c 35	N76-24525 *
US-PATENT-CLASS-118-308	c 17	N71-24911 *	US-PATENT-CLASS-124-6	c 09	N77-19076 *	US-PATENT-CLASS-128-DIG.4	c 52	N77-28717 *
US-PATENT-CLASS-118-313	c 51	N77-27677 *	US-PATENT-CLASS-125-13R	c 37	N85-21650 *	US-PATENT-CLASS-128-DIG.6	c 51	N81-14605 *
US-PATENT-CLASS-118-320	c 37	N82-24492 *	US-PATENT-CLASS-125-15	c 37	N85-21650 *	US-PATENT-CLASS-128-DIG.9	c 52	N80-16725 *
US-PATENT-CLASS-118-405	c 76	N91-15898 *	US-PATENT-CLASS-125-1	c 46	N74-23069 *	US-PATENT-CLASS-128-DIG.9	c 51	N81-14605 *
US-PATENT-CLASS-118-407	c 76	N91-15898 *	US-PATENT-CLASS-125-20	c 31	N83-27058 *	US-PATENT-CLASS-128-1.2	c 52	N82-27525 *
US-PATENT-CLASS-118-416	c 24	N92-16025 *	US-PATENT-CLASS-125-21	c 37	N80-29703 *	US-PATENT-CLASS-128-1A	c 05	N73-32012 *
US-PATENT-CLASS-118-419	c 76	N91-15898 *	US-PATENT-CLASS-125-23R	c 76	N80-18951 *	US-PATENT-CLASS-128-1A	c 54	N84-16803 *
US-PATENT-CLASS-118-423	c 37	N82-12441 *	US-PATENT-CLASS-125-23R	c 37	N82-32730 *	US-PATENT-CLASS-128-1R	c 52	N77-25772 *
US-PATENT-CLASS-118-428	c 76	N91-15898 *	US-PATENT-CLASS-125-3	c 46	N74-23069 *	US-PATENT-CLASS-128-1R	c 52	N77-28716 *
US-PATENT-CLASS-118-43	c 25	N75-29192 *	US-PATENT-CLASS-126-DIG.1	c 44	N85-30474 *	US-PATENT-CLASS-128-1R	c 52	N81-25660 *
US-PATENT-CLASS-118-48	c 25	N75-26043 *	US-PATENT-CLASS-126-263	c 44	N77-32581 *	US-PATENT-CLASS-128-1R	c 52	N84-11744 *
US-PATENT-CLASS-118-49.1	c 15	N72-32487 *	US-PATENT-CLASS-126-263	c 44	N78-17460 *	US-PATENT-CLASS-128-142.2	c 54	N76-24900 *
US-PATENT-CLASS-118-49.1	c 31	N75-12161 *	US-PATENT-CLASS-126-263	c 44	N80-20808 *	US-PATENT-CLASS-128-142.5	c 05	N71-11190 *
US-PATENT-CLASS-118-49.1	c 25	N75-26043 *	US-PATENT-CLASS-126-263	c 35	N85-29214 *	US-PATENT-CLASS-128-142.5	c 05	N71-11203 *
US-PATENT-CLASS-118-49.5	c 09	N71-26701 *	US-PATENT-CLASS-126-270	c 09	N70-40234 *	US-PATENT-CLASS-128-142.5	c 05	N71-17599 *
US-PATENT-CLASS-118-49	c 25	N79-28253 *	US-PATENT-CLASS-126-270	c 03	N70-41580 *	US-PATENT-CLASS-128-142.5	c 05	N72-20096 *
US-PATENT-CLASS-118-50.1	c 71	N84-16940 *	US-PATENT-CLASS-126-270	c 34	N74-23039 *	US-PATENT-CLASS-128-142.5	c 05	N73-25125 *
US-PATENT-CLASS-118-50.1	c 36	N84-22944 *	US-PATENT-CLASS-126-270	c 44	N76-14595 *	US-PATENT-CLASS-128-142.7	c 54	N78-32721 *
US-PATENT-CLASS-118-500	c 37	N78-17383 *	US-PATENT-CLASS-126-270	c 44	N76-23675 *	US-PATENT-CLASS-128-142R	c 54	N80-10799 *
US-PATENT-CLASS-118-500	c 37	N82-12441 *	US-PATENT-CLASS-126-270	c 44	N76-24696 *	US-PATENT-CLASS-128-145.8	c 54	N75-27761 *
US-PATENT-CLASS-118-500	c 37	N82-24492 *	US-PATENT-CLASS-126-270	c 35	N77-20401 *	US-PATENT-CLASS-128-15R	c 54	N84-16803 *
US-PATENT-CLASS-118-500	c 71	N84-16940 *	US-PATENT-CLASS-126-270	c 44	N77-32582 *	US-PATENT-CLASS-128-191R	c 25	N74-12813 *

US-PATENT-CLASS-128-191R	c 54	N80-10799 *	US-PATENT-CLASS-128-280	c 24	N82-29362 *	US-PATENT-CLASS-134-137	c 37	N82-12441 *
US-PATENT-CLASS-128-1	c 05	N70-41819 *	US-PATENT-CLASS-128-283	c 05	N69-23192 *	US-PATENT-CLASS-134-166C	c 37	N87-17035 *
US-PATENT-CLASS-128-1	c 05	N71-20268 *	US-PATENT-CLASS-128-283	c 24	N82-29362 *	US-PATENT-CLASS-134-17	c 43	N81-26509 *
US-PATENT-CLASS-128-2.05A	c 52	N74-26626 *	US-PATENT-CLASS-128-284	c 24	N82-29362 *	US-PATENT-CLASS-134-21	c 37	N76-18456 *
US-PATENT-CLASS-128-2.05A	c 54	N75-13531 *	US-PATENT-CLASS-128-285	c 24	N82-29362 *	US-PATENT-CLASS-134-37	c 37	N76-18456 *
US-PATENT-CLASS-128-2.05E	c 52	N74-27566 *	US-PATENT-CLASS-128-288	c 24	N82-29362 *	US-PATENT-CLASS-134-37	c 37	N85-21652 *
US-PATENT-CLASS-128-2.05E	c 52	N76-29896 *	US-PATENT-CLASS-128-291	c 24	N82-29362 *	US-PATENT-CLASS-134-93	c 37	N87-17035 *
US-PATENT-CLASS-128-2.05F	c 14	N73-32326 *	US-PATENT-CLASS-128-295	c 05	N72-22093 *	US-PATENT-CLASS-135-1	c 32	N70-36536 *
US-PATENT-CLASS-128-2.05P	c 54	N75-13531 *	US-PATENT-CLASS-128-295	c 52	N81-24711 *	US-PATENT-CLASS-135-903	c 37	N87-17036 *
US-PATENT-CLASS-128-2.05R	c 05	N73-27941 *	US-PATENT-CLASS-128-295	c 52	N81-28740 *	US-PATENT-CLASS-136-100R	c 03	N72-20034 *
US-PATENT-CLASS-128-2.05R	c 52	N76-29895 *	US-PATENT-CLASS-128-296	c 24	N82-29362 *	US-PATENT-CLASS-136-114	c 44	N76-14601 *
US-PATENT-CLASS-128-2.05R	c 52	N79-10724 *	US-PATENT-CLASS-128-299	c 05	N70-39922 *	US-PATENT-CLASS-136-132	c 03	N71-11053 *
US-PATENT-CLASS-128-2.05S	c 52	N74-26626 *	US-PATENT-CLASS-128-2	c 05	N73-27062 *	US-PATENT-CLASS-136-132	c 03	N71-22974 *
US-PATENT-CLASS-128-2.05T	c 52	N74-12778 *	US-PATENT-CLASS-128-303B	c 52	N83-25346 *	US-PATENT-CLASS-136-133	c 15	N69-24320 *
US-PATENT-CLASS-128-2.05V	c 35	N76-24525 *	US-PATENT-CLASS-128-303R	c 52	N77-28716 *	US-PATENT-CLASS-136-133	c 03	N71-23006 *
US-PATENT-CLASS-128-2.05Z	c 54	N75-27760 *	US-PATENT-CLASS-128-305	c 05	N73-27062 *	US-PATENT-CLASS-136-133	c 03	N72-15986 *
US-PATENT-CLASS-128-2.05Z	c 52	N79-18580 *	US-PATENT-CLASS-128-305	c 52	N75-33640 *	US-PATENT-CLASS-136-135	c 03	N72-15986 *
US-PATENT-CLASS-128-2.05F	c 05	N70-41329 *	US-PATENT-CLASS-128-305	c 52	N78-14773 *	US-PATENT-CLASS-136-143	c 44	N76-29699 *
US-PATENT-CLASS-128-2.05	c 04	N71-23185 *	US-PATENT-CLASS-128-325	c 52	N84-28388 *	US-PATENT-CLASS-136-146	c 03	N69-21337 *
US-PATENT-CLASS-128-2.05	c 05	N71-27234 *	US-PATENT-CLASS-128-327	c 52	N82-11770 *	US-PATENT-CLASS-136-146	c 24	N76-14204 *
US-PATENT-CLASS-128-2.06B	c 05	N75-24716 *	US-PATENT-CLASS-128-328	c 52	N84-34913 *	US-PATENT-CLASS-136-148	c 24	N76-14204 *
US-PATENT-CLASS-128-2.06E	c 52	N76-29896 *	US-PATENT-CLASS-128-329R	c 52	N79-27836 *	US-PATENT-CLASS-136-148	c 44	N82-24645 *
US-PATENT-CLASS-128-2.06F	c 52	N74-12778 *	US-PATENT-CLASS-128-346	c 52	N81-25660 *	US-PATENT-CLASS-136-162	c 44	N76-14601 *
US-PATENT-CLASS-128-2.06R	c 05	N73-27941 *	US-PATENT-CLASS-128-346	c 52	N84-11744 *	US-PATENT-CLASS-136-166	c 03	N71-23336 *
US-PATENT-CLASS-128-2.06R	c 52	N76-14757 *	US-PATENT-CLASS-128-346	c 52	N84-28388 *	US-PATENT-CLASS-136-166	c 03	N72-20032 *
US-PATENT-CLASS-128-2.06	c 05	N69-21925 *	US-PATENT-CLASS-128-348	c 52	N80-16725 *	US-PATENT-CLASS-136-170	c 03	N71-11051 *
US-PATENT-CLASS-128-2.06	c 05	N71-22896 *	US-PATENT-CLASS-128-379	c 52	N77-14736 *	US-PATENT-CLASS-136-175	c 03	N72-20034 *
US-PATENT-CLASS-128-2.06	c 09	N71-24618 *	US-PATENT-CLASS-128-38	c 54	N84-16803 *	US-PATENT-CLASS-136-179	c 03	N70-41864 *
US-PATENT-CLASS-128-2.06	c 05	N71-26293 *	US-PATENT-CLASS-128-400	c 52	N77-14736 *	US-PATENT-CLASS-136-182	c 03	N71-10728 *
US-PATENT-CLASS-128-2.07	c 05	N73-32015 *	US-PATENT-CLASS-128-402	c 05	N72-20096 *	US-PATENT-CLASS-136-182	c 03	N71-20407 *
US-PATENT-CLASS-128-2.07	c 52	N74-20728 *	US-PATENT-CLASS-128-402	c 52	N77-14736 *	US-PATENT-CLASS-136-182	c 03	N71-20491 *
US-PATENT-CLASS-128-2.08	c 05	N69-21473 *	US-PATENT-CLASS-128-410	c 52	N77-28717 *	US-PATENT-CLASS-136-182	c 44	N74-27519 *
US-PATENT-CLASS-128-2.08	c 05	N73-32015 *	US-PATENT-CLASS-128-417	c 05	N72-25120 *	US-PATENT-CLASS-136-182	c 44	N76-14601 *
US-PATENT-CLASS-128-2.08	c 52	N74-20728 *	US-PATENT-CLASS-128-417	c 05	N72-27103 *	US-PATENT-CLASS-136-200	c 35	N91-31608 *
US-PATENT-CLASS-128-2.1A	c 09	N72-17153 *	US-PATENT-CLASS-128-418	c 52	N76-29896 *	US-PATENT-CLASS-136-202	c 09	N72-12136 *
US-PATENT-CLASS-128-2.1A	c 09	N72-22202 *	US-PATENT-CLASS-128-418	c 52	N77-14736 *	US-PATENT-CLASS-136-202	c 03	N72-26031 *
US-PATENT-CLASS-128-2.1A	c 52	N74-26625 *	US-PATENT-CLASS-128-419P	c 52	N76-29896 *	US-PATENT-CLASS-136-202	c 44	N76-16612 *
US-PATENT-CLASS-128-2.1A	c 52	N76-14757 *	US-PATENT-CLASS-128-421	c 52	N82-29863 *	US-PATENT-CLASS-136-202	c 35	N77-32454 *
US-PATENT-CLASS-128-2.1A	c 52	N76-29894 *	US-PATENT-CLASS-128-422	c 52	N82-33996 *	US-PATENT-CLASS-136-202	c 35	N79-14346 *
US-PATENT-CLASS-128-2.1A	c 52	N79-18580 *	US-PATENT-CLASS-128-62A	c 52	N82-29862 *	US-PATENT-CLASS-136-202	c 44	N92-16457 *
US-PATENT-CLASS-128-2.1E	c 05	N72-27103 *	US-PATENT-CLASS-128-639	c 52	N79-27836 *	US-PATENT-CLASS-136-204	c 31	N91-27385 *
US-PATENT-CLASS-128-2.1E	c 35	N76-24525 *	US-PATENT-CLASS-128-642	c 52	N80-27072 *	US-PATENT-CLASS-136-205	c 44	N92-16457 *
US-PATENT-CLASS-128-2.1E	c 52	N77-28717 *	US-PATENT-CLASS-128-642	c 52	N81-14612 *	US-PATENT-CLASS-136-206	c 03	N72-11062 *
US-PATENT-CLASS-128-2.1R	c 05	N73-26072 *	US-PATENT-CLASS-128-642	c 52	N81-20703 *	US-PATENT-CLASS-136-206	c 09	N72-12136 *
US-PATENT-CLASS-128-2.1Z	c 35	N76-24525 *	US-PATENT-CLASS-128-660.06	c 71	N91-27914 *	US-PATENT-CLASS-136-206	c 44	N76-14595 *
US-PATENT-CLASS-128-2.1	c 05	N71-11193 *	US-PATENT-CLASS-128-660	c 52	N79-26771 *	US-PATENT-CLASS-136-206	c 44	N76-31666 *
US-PATENT-CLASS-128-2.1	c 05	N71-12346 *	US-PATENT-CLASS-128-660	c 52	N83-27578 *	US-PATENT-CLASS-136-20	c 44	N74-19693 *
US-PATENT-CLASS-128-2.1	c 05	N71-24729 *	US-PATENT-CLASS-128-660	c 52	N85-30618 *	US-PATENT-CLASS-136-210	c 44	N76-16612 *
US-PATENT-CLASS-128-2.1	c 09	N71-26002 *	US-PATENT-CLASS-128-661.03	c 52	N90-21519 *	US-PATENT-CLASS-136-211	c 35	N76-15434 *
US-PATENT-CLASS-128-2.1	c 05	N72-25120 *	US-PATENT-CLASS-128-661.03	c 52	N92-11621 *	US-PATENT-CLASS-136-212	c 35	N76-15434 *
US-PATENT-CLASS-128-2F	c 54	N76-14804 *	US-PATENT-CLASS-128-663	c 52	N83-27578 *	US-PATENT-CLASS-136-213	c 14	N69-27459 *
US-PATENT-CLASS-128-2H	c 52	N76-14757 *	US-PATENT-CLASS-128-665	c 52	N81-27783 *	US-PATENT-CLASS-136-213	c 34	N74-27861 *
US-PATENT-CLASS-128-2H	c 52	N76-29894 *	US-PATENT-CLASS-128-666	c 52	N80-23969 *	US-PATENT-CLASS-136-224	c 14	N73-12447 *
US-PATENT-CLASS-128-2H	c 52	N77-10780 *	US-PATENT-CLASS-128-671	c 52	N91-14709 *	US-PATENT-CLASS-136-225	c 14	N73-24472 *
US-PATENT-CLASS-128-2H	c 52	N77-14736 *	US-PATENT-CLASS-128-675	c 35	N90-23706 *	US-PATENT-CLASS-136-225	c 35	N76-15434 *
US-PATENT-CLASS-128-2N	c 05	N72-25122 *	US-PATENT-CLASS-128-686	c 52	N82-11770 *	US-PATENT-CLASS-136-225	c 44	N85-21768 *
US-PATENT-CLASS-128-2N	c 05	N73-13114 *	US-PATENT-CLASS-128-689	c 52	N91-14709 *	US-PATENT-CLASS-136-227	c 09	N72-12136 *
US-PATENT-CLASS-128-2P	c 52	N76-29894 *	US-PATENT-CLASS-128-690	c 52	N80-23969 *	US-PATENT-CLASS-136-228	c 33	N71-15568 *
US-PATENT-CLASS-128-2R	c 09	N72-22202 *	US-PATENT-CLASS-128-691	c 52	N82-11770 *	US-PATENT-CLASS-136-230	c 14	N71-23039 *
US-PATENT-CLASS-128-2R	c 52	N79-12694 *	US-PATENT-CLASS-128-6	c 52	N80-16725 *	US-PATENT-CLASS-136-230	c 34	N74-27861 *
US-PATENT-CLASS-128-2S	c 52	N74-10975 *	US-PATENT-CLASS-128-706	c 52	N91-14709 *	US-PATENT-CLASS-136-232	c 35	N77-14409 *
US-PATENT-CLASS-128-2S	c 52	N74-27864 *	US-PATENT-CLASS-128-715	c 35	N92-33016 *	US-PATENT-CLASS-136-233	c 14	N72-27410 *
US-PATENT-CLASS-128-2S	c 33	N75-31329 *	US-PATENT-CLASS-128-716	c 52	N91-14709 *	US-PATENT-CLASS-136-233	c 14	N73-13417 *
US-PATENT-CLASS-128-2S	c 33	N76-19338 *	US-PATENT-CLASS-128-736	c 52	N85-30618 *	US-PATENT-CLASS-136-233	c 34	N74-27861 *
US-PATENT-CLASS-128-2S	c 52	N76-29895 *	US-PATENT-CLASS-128-748	c 52	N80-18691 *	US-PATENT-CLASS-136-233	c 35	N77-14409 *
US-PATENT-CLASS-128-2S	c 52	N76-29896 *	US-PATENT-CLASS-128-748	c 35	N90-23706 *	US-PATENT-CLASS-136-236R	c 35	N77-32454 *
US-PATENT-CLASS-128-2V	c 52	N74-20726 *	US-PATENT-CLASS-128-760	c 52	N80-18690 *	US-PATENT-CLASS-136-236	c 35	N79-14346 *
US-PATENT-CLASS-128-2V	c 35	N75-12271 *	US-PATENT-CLASS-128-760	c 52	N81-29763 *	US-PATENT-CLASS-136-240	c 35	N77-32454 *
US-PATENT-CLASS-128-2V	c 54	N75-27760 *	US-PATENT-CLASS-128-761	c 52	N81-24711 *	US-PATENT-CLASS-136-244	c 44	N91-27614 *
US-PATENT-CLASS-128-2V	c 52	N79-14751 *	US-PATENT-CLASS-128-774	c 52	N80-27072 *	US-PATENT-CLASS-136-245	c 54	N92-21589 *
US-PATENT-CLASS-128-2V	c 52	N79-18580 *	US-PATENT-CLASS-128-774	c 52	N81-20703 *	US-PATENT-CLASS-136-246	c 44	N85-21768 *
US-PATENT-CLASS-128-202.11	c 54	N86-28618 *	US-PATENT-CLASS-128-774	c 52	N83-25346 *	US-PATENT-CLASS-136-246	c 54	N92-21589 *
US-PATENT-CLASS-128-203	c 54	N76-24900 *	US-PATENT-CLASS-128-775	c 35	N92-33016 *	US-PATENT-CLASS-136-249	c 44	N81-12542 *
US-PATENT-CLASS-128-204.18	c 51	N81-14605 *	US-PATENT-CLASS-128-778	c 52	N82-22875 *	US-PATENT-CLASS-136-249	c 44	N82-29709 *
US-PATENT-CLASS-128-206F	c 14	N73-24473 *	US-PATENT-CLASS-128-778	c 35	N90-23706 *	US-PATENT-CLASS-136-249	c 44	N82-31764 *
US-PATENT-CLASS-128-207.14	c 51	N81-14605 *	US-PATENT-CLASS-128-782	c 52	N80-27072 *	US-PATENT-CLASS-136-249	c 44	N83-32177 *
US-PATENT-CLASS-128-207.28	c 51	N81-14605 *	US-PATENT-CLASS-128-782	c 39	N83-20280 *	US-PATENT-CLASS-136-249	c 44	N87-17399 *
US-PATENT-CLASS-128-212	c 54	N80-10799 *	US-PATENT-CLASS-128-782	c 52	N83-25346 *	US-PATENT-CLASS-136-249	c 33	N87-23879 *
US-PATENT-CLASS-128-214D	c 52	N79-14749 *	US-PATENT-CLASS-128-784	c 52	N82-33996 *	US-PATENT-CLASS-136-249	c 44	N91-27614 *
US-PATENT-CLASS-128-214E	c 52	N74-22771 *	US-PATENT-CLASS-128-80-E	c 54	N86-22112 *	US-PATENT-CLASS-136-24	c 09	N73-32108 *
US-PATENT-CLASS-128-214F	c 37	N77-28487 *	US-PATENT-CLASS-128-80F	c 52	N81-25661 *	US-PATENT-CLASS-136-253	c 44	N85-34441 *
US-PATENT-CLASS-128-230	c 52	N75-33640 *	US-PATENT-CLASS-128-80A	c 52	N82-33996 *	US-PATENT-CLASS-136-253	c 44	N92-22037 *
US-PATENT-CLASS-128-236	c 51	N81-14605 *	US-PATENT-CLASS-128-89R	c 52	N81-25662 *	US-PATENT-CLASS-136-255	c 44	N81-29525 *
US-PATENT-CLASS-128-24A	c 52	N84-34913 *	US-PATENT-CLASS-128-903	c 52	N80-18691 *	US-PATENT-CLASS-136-255	c 44	N83-14692 *
US-PATENT-CLASS-128-24A	c 05	N73-27062 *	US-PATENT-CLASS-128-92C	c 27	N78-17215 *	US-PATENT-CLASS-136-255	c 33	N85-21492 *
US-PATENT-CLASS-128-24A	c 54	N75-27760 *	US-PATENT-CLASS-128-92G	c 27	N78-17215 *	US-PATENT-CLASS-136-255	c 44	N85-30475 *
US-PATENT-CLASS-128-24	c 05	N71-24738 *	US-PATENT-CLASS-129-16.7	c 08	N71-15908 *	US-PATENT-CLASS-136-255	c 76	N86-20150 *
US-PATENT-CLASS-128-25R	c 37	N74-18127 *	US-PATENT-CLASS-13-20	c 11	N72-23215 *	US-PATENT-CLASS-136-255	c 33	N87-23879 *
US-PATENT-CLASS-128-25	c 05	N71-24738 *	US-PATENT-CLASS-13-20	c 12	N79-26075 *	US-PATENT-CLASS-136-256	c 44	N83-13579 *
US-PATENT-CLASS-128-26	c 52	N76-19785 *	US-PATENT-CLASS-13-22	c 12	N79-26075 *	US-PATENT-CLASS-136-256	c 44	N83-14692 *
US-PATENT-CLASS-128-272	c 15	N71-24835 *	US-PATENT-CLASS-13-24	c 12	N79-26075 *	US-PATENT-CLASS-136-256	c 44	N85-20530 *
US-PATENT-CLASS-128-272	c 52	N79-14749 *	US-PATENT-CLASS-13-26	c 33	N71-15625 *	US-PATENT-CLASS-136-256	c 44	N85-30475 *
US-PATENT-CLASS-128-275	c 15	N71-24835 *	US-PATENT-CLASS-13-31	c 14	N71-23267 *	US-PATENT-CLASS-136-256	c 44	N91-27614 *
US-PATENT-CLASS-128-275	c 52	N81-29763 *	US-PATENT-CLASS-13-31	c 11	N72-23215 *	US-PATENT-CLASS-136-258	c 44	N81-19558 *
US-PATENT-CLASS-128-276	c 52	N80-14684 *	US-PATENT-CLASS-13-31	c 31	N74-27900 *	US-PATENT-CLASS-136-258	c 44	N81-29525 *
US-PATENT-CLASS-128-276	c 52	N80-18690 *	US-PATENT-CLASS-13-35	c 33	N71-24145 *	US-PATENT-CLASS-136-259	c 44	N83-13579 *

US-PATENT-CLASS-136-259	c 44	N83-14692 *	US-PATENT-CLASS-137-15.1	c 05	N79-24976 *	US-PATENT-CLASS-138-133	c 52	N80-16725 *
US-PATENT-CLASS-136-261	c 44	N82-26777 *	US-PATENT-CLASS-137-15.1	c 07	N81-14999 *	US-PATENT-CLASS-138-141	c 24	N90-25196 *
US-PATENT-CLASS-136-261	c 44	N85-30475 *	US-PATENT-CLASS-137-15.2	c 02	N74-20646 *	US-PATENT-CLASS-138-148	c 34	N75-12222 *
US-PATENT-CLASS-136-261	c 44	N86-32875 *	US-PATENT-CLASS-137-15.2	c 35	N76-14431 *	US-PATENT-CLASS-138-149	c 24	N90-25196 *
US-PATENT-CLASS-136-262	c 44	N81-29525 *	US-PATENT-CLASS-137-154	c 15	N73-27406 *	US-PATENT-CLASS-138-153	c 24	N90-25196 *
US-PATENT-CLASS-136-262	c 76	N86-20150 *	US-PATENT-CLASS-137-154	c 31	N90-20254 *	US-PATENT-CLASS-138-178	c 15	N72-20445 *
US-PATENT-CLASS-136-28	c 03	N71-10608 *	US-PATENT-CLASS-137-177	c 20	N80-10278 *	US-PATENT-CLASS-138-26	c 31	N91-25305 *
US-PATENT-CLASS-136-290	c 44	N82-26777 *	US-PATENT-CLASS-137-197	c 15	N70-41646 *	US-PATENT-CLASS-138-30	c 31	N91-25305 *
US-PATENT-CLASS-136-291	c 44	N81-12542 *	US-PATENT-CLASS-137-197	c 35	N78-12390 *	US-PATENT-CLASS-138-33	c 52	N80-16725 *
US-PATENT-CLASS-136-30	c 44	N74-19693 *	US-PATENT-CLASS-137-1	c 12	N70-38997 *	US-PATENT-CLASS-138-38	c 02	N88-14071 *
US-PATENT-CLASS-136-30	c 44	N76-18643 *	US-PATENT-CLASS-137-1	c 15	N73-27406 *	US-PATENT-CLASS-138-38	c 34	N88-29133 *
US-PATENT-CLASS-136-30	c 44	N76-29699 *	US-PATENT-CLASS-137-207	c 34	N77-30399 *	US-PATENT-CLASS-138-42	c 15	N71-15608 *
US-PATENT-CLASS-136-36	c 44	N74-19692 *	US-PATENT-CLASS-137-209	c 34	N77-30399 *	US-PATENT-CLASS-138-42	c 44	N84-14583 *
US-PATENT-CLASS-136-6LF	c 44	N76-18643 *	US-PATENT-CLASS-137-209	c 20	N80-10278 *	US-PATENT-CLASS-138-43	c 15	N71-19213 *
US-PATENT-CLASS-136-6	c 03	N71-26084 *	US-PATENT-CLASS-137-340	c 15	N70-34817 *	US-PATENT-CLASS-138-45	c 15	N71-18580 *
US-PATENT-CLASS-136-6	c 03	N72-15986 *	US-PATENT-CLASS-137-340	c 15	N70-35087 *	US-PATENT-CLASS-138-45	c 15	N73-13462 *
US-PATENT-CLASS-136-6	c 44	N82-24641 *	US-PATENT-CLASS-137-341	c 12	N71-17661 *	US-PATENT-CLASS-138-46	c 12	N71-18615 *
US-PATENT-CLASS-136-6	c 44	N82-24642 *	US-PATENT-CLASS-137-375	c 37	N80-23654 *	US-PATENT-CLASS-138-4	c 15	N71-18580 *
US-PATENT-CLASS-136-6	c 44	N82-24643 *	US-PATENT-CLASS-137-397	c 15	N73-26472 *	US-PATENT-CLASS-138-96R	c 37	N79-22474 *
US-PATENT-CLASS-136-6	c 44	N82-24644 *	US-PATENT-CLASS-137-469	c 05	N72-20097 *	US-PATENT-CLASS-138-97	c 37	N86-32736 * #
US-PATENT-CLASS-136-79	c 03	N72-20032 *	US-PATENT-CLASS-137-484.2	c 34	N78-25351 *	US-PATENT-CLASS-139-425R	c 28	N72-11708 *
US-PATENT-CLASS-136-81	c 03	N72-20032 *	US-PATENT-CLASS-137-487.5	c 14	N73-13418 *	US-PATENT-CLASS-14-71.5	c 18	N91-14374 *
US-PATENT-CLASS-136-83R	c 03	N72-20034 *	US-PATENT-CLASS-137-491	c 15	N69-21924 * #	US-PATENT-CLASS-140-105	c 15	N72-12408 *
US-PATENT-CLASS-136-83R	c 44	N76-18641 *	US-PATENT-CLASS-137-493	c 52	N81-25660 *	US-PATENT-CLASS-140-123	c 15	N71-15918 *
US-PATENT-CLASS-136-83	c 03	N71-28579 *	US-PATENT-CLASS-137-495	c 15	N70-38603 *	US-PATENT-CLASS-140-124	c 15	N71-10809 *
US-PATENT-CLASS-136-86A	c 44	N76-27664 *	US-PATENT-CLASS-137-496	c 15	N71-22706 *	US-PATENT-CLASS-141-197	c 35	N78-10428 *
US-PATENT-CLASS-136-86S	c 44	N76-18641 *	US-PATENT-CLASS-137-501	c 34	N78-25351 *	US-PATENT-CLASS-141-198	c 25	N86-27431 *
US-PATENT-CLASS-136-86	c 03	N71-11052 *	US-PATENT-CLASS-137-505.12	c 14	N71-18625 *	US-PATENT-CLASS-141-23	c 15	N72-21465 *
US-PATENT-CLASS-136-86	c 03	N71-20904 *	US-PATENT-CLASS-137-505.16	c 34	N78-25351 *	US-PATENT-CLASS-141-258	c 14	N71-27005 *
US-PATENT-CLASS-136-86	c 15	N71-23022 *	US-PATENT-CLASS-137-505.25	c 37	N78-25426 *	US-PATENT-CLASS-141-45	c 29	N90-20236 *
US-PATENT-CLASS-136-86	c 03	N71-29044 *	US-PATENT-CLASS-137-505.38	c 37	N75-15050 *	US-PATENT-CLASS-141-4	c 35	N78-10428 *
US-PATENT-CLASS-136-89AC	c 44	N77-31601 *	US-PATENT-CLASS-137-505.42	c 37	N75-15050 *	US-PATENT-CLASS-141-5	c 33	N71-20834 *
US-PATENT-CLASS-136-89CA	c 44	N79-25482 *	US-PATENT-CLASS-137-515.3	c 37	N76-14463 *	US-PATENT-CLASS-141-91	c 12	N71-21089 *
US-PATENT-CLASS-136-89CC	c 44	N78-25527 *	US-PATENT-CLASS-137-516.27	c 15	N73-30459 *	US-PATENT-CLASS-141-93	c 31	N90-20254 *
US-PATENT-CLASS-136-89CC	c 44	N78-25529 *	US-PATENT-CLASS-137-535	c 15	N73-30459 *	US-PATENT-CLASS-148-DIG.22	c 76	N92-22035 *
US-PATENT-CLASS-136-89CC	c 44	N79-11467 *	US-PATENT-CLASS-137-535	c 05	N73-32014 *	US-PATENT-CLASS-148-DIG.26	c 76	N85-30922 *
US-PATENT-CLASS-136-89CC	c 44	N79-17314 *	US-PATENT-CLASS-137-538	c 05	N73-25125 *	US-PATENT-CLASS-148-1.5	c 26	N71-10607 *
US-PATENT-CLASS-136-89CC	c 44	N79-25482 *	US-PATENT-CLASS-137-539	c 15	N70-41811 *	US-PATENT-CLASS-148-1.5	c 26	N71-23654 *
US-PATENT-CLASS-136-89CC	c 44	N79-31752 *	US-PATENT-CLASS-137-549	c 37	N81-17433 *	US-PATENT-CLASS-148-1.5	c 76	N74-20329 *
US-PATENT-CLASS-136-89H	c 44	N78-25528 *	US-PATENT-CLASS-137-550	c 37	N76-14463 *	US-PATENT-CLASS-148-1.5	c 44	N80-29835 *
US-PATENT-CLASS-136-89H	c 44	N78-25529 *	US-PATENT-CLASS-137-554	c 09	N71-23191 *	US-PATENT-CLASS-148-1.5	c 33	N81-26360 *
US-PATENT-CLASS-136-89PC	c 44	N79-25482 *	US-PATENT-CLASS-137-556	c 34	N91-14563 *	US-PATENT-CLASS-148-1.5	c 44	N82-26777 *
US-PATENT-CLASS-136-89PC	c 44	N79-31753 *	US-PATENT-CLASS-137-559	c 11	N73-12265 *	US-PATENT-CLASS-148-1.5	c 44	N82-29709 *
US-PATENT-CLASS-136-89P	c 44	N77-31601 *	US-PATENT-CLASS-137-574	c 20	N80-10278 *	US-PATENT-CLASS-148-1.5	c 44	N86-32875 *
US-PATENT-CLASS-136-89P	c 44	N78-25528 *	US-PATENT-CLASS-137-576	c 20	N80-10278 *	US-PATENT-CLASS-148-11.5R	c 15	N73-13465 *
US-PATENT-CLASS-136-89P	c 44	N78-25529 *	US-PATENT-CLASS-137-582	c 32	N71-16103 *	US-PATENT-CLASS-148-12.4	c 26	N79-22271 *
US-PATENT-CLASS-136-89P	c 44	N78-27515 *	US-PATENT-CLASS-137-582	c 32	N71-16106 *	US-PATENT-CLASS-148-12.7A	c 26	N78-24333 *
US-PATENT-CLASS-136-89P	c 44	N79-17314 *	US-PATENT-CLASS-137-582	c 15	N71-19569 *	US-PATENT-CLASS-148-12.7N	c 26	N77-20201 *
US-PATENT-CLASS-136-89P	c 44	N80-14474 *	US-PATENT-CLASS-137-582	c 15	N73-26472 *	US-PATENT-CLASS-148-12F	c 26	N79-22271 *
US-PATENT-CLASS-136-89SG	c 44	N78-24609 *	US-PATENT-CLASS-137-590	c 20	N80-10278 *	US-PATENT-CLASS-148-121	c 76	N79-16678 *
US-PATENT-CLASS-136-89SG	c 44	N80-24741 *	US-PATENT-CLASS-137-594	c 12	N71-18615 *	US-PATENT-CLASS-148-125	c 26	N78-24333 *
US-PATENT-CLASS-136-89SJ	c 44	N78-13526 *	US-PATENT-CLASS-137-604	c 15	N73-27406 *	US-PATENT-CLASS-148-126	c 17	N71-24142 *
US-PATENT-CLASS-136-89SJ	c 44	N79-11467 *	US-PATENT-CLASS-137-606	c 37	N87-21332 *	US-PATENT-CLASS-148-126	c 18	N71-26153 *
US-PATENT-CLASS-136-89SJ	c 44	N79-14528 *	US-PATENT-CLASS-137-608	c 15	N73-13462 *	US-PATENT-CLASS-148-126	c 18	N71-28729 *
US-PATENT-CLASS-136-89SJ	c 44	N79-25482 *	US-PATENT-CLASS-137-614.06	c 37	N79-11402 *	US-PATENT-CLASS-148-126	c 26	N74-10521 *
US-PATENT-CLASS-136-89	c 03	N69-24267 * #	US-PATENT-CLASS-137-614.11	c 37	N87-25573 *	US-PATENT-CLASS-148-127	c 26	N75-29236 *
US-PATENT-CLASS-136-89	c 03	N71-11049 *	US-PATENT-CLASS-137-614.18	c 37	N87-25573 *	US-PATENT-CLASS-148-13.1	c 76	N90-19884 *
US-PATENT-CLASS-136-89	c 03	N71-11050 *	US-PATENT-CLASS-137-614	c 15	N70-36492 *	US-PATENT-CLASS-148-131	c 26	N80-28492 *
US-PATENT-CLASS-136-89	c 03	N71-11056 *	US-PATENT-CLASS-137-615	c 12	N71-16031 *	US-PATENT-CLASS-148-13	c 14	N71-25892 *
US-PATENT-CLASS-136-89	c 03	N71-18698 *	US-PATENT-CLASS-137-624.11	c 35	N78-19466 *	US-PATENT-CLASS-148-13	c 76	N90-19884 *
US-PATENT-CLASS-136-89	c 03	N71-19545 *	US-PATENT-CLASS-137-624.14	c 03	N69-21469 * #	US-PATENT-CLASS-148-149	c 09	N90-23415 *
US-PATENT-CLASS-136-89	c 03	N71-20492 *	US-PATENT-CLASS-137-625.38	c 37	N78-25426 *	US-PATENT-CLASS-148-159	c 26	N89-28621 *
US-PATENT-CLASS-136-89	c 03	N71-20895 *	US-PATENT-CLASS-137-625.3	c 37	N78-25426 *	US-PATENT-CLASS-148-16.6	c 26	N88-14179 *
US-PATENT-CLASS-136-89	c 26	N71-23043 *	US-PATENT-CLASS-137-625.4	c 37	N80-23654 *	US-PATENT-CLASS-148-162	c 26	N77-20201 *
US-PATENT-CLASS-136-89	c 03	N71-23187 *	US-PATENT-CLASS-137-625.5	c 15	N71-23051 *	US-PATENT-CLASS-148-162	c 26	N87-28647 *
US-PATENT-CLASS-136-89	c 03	N71-23449 *	US-PATENT-CLASS-137-625.69	c 15	N70-36908 *	US-PATENT-CLASS-148-173	c 76	N83-20789 *
US-PATENT-CLASS-136-89	c 03	N71-33409 *	US-PATENT-CLASS-137-628	c 37	N74-21065 *	US-PATENT-CLASS-148-174	c 26	N71-29156 *
US-PATENT-CLASS-136-89	c 03	N72-20031 *	US-PATENT-CLASS-137-637.05	c 37	N79-11402 *	US-PATENT-CLASS-148-174	c 44	N76-28635 *
US-PATENT-CLASS-136-89	c 03	N72-22042 *	US-PATENT-CLASS-137-81.5	c 12	N69-21466 * #	US-PATENT-CLASS-148-174	c 44	N78-24609 *
US-PATENT-CLASS-136-89	c 31	N72-22874 *	US-PATENT-CLASS-137-81.5	c 15	N71-15609 *	US-PATENT-CLASS-148-174	c 76	N85-30922 *
US-PATENT-CLASS-136-89	c 03	N72-24037 *	US-PATENT-CLASS-137-81.5	c 12	N71-17578 *	US-PATENT-CLASS-148-174	c 76	N87-15882 *
US-PATENT-CLASS-136-89	c 09	N72-25259 *	US-PATENT-CLASS-137-81.5	c 12	N71-17579 *	US-PATENT-CLASS-148-175	c 25	N75-26043 *
US-PATENT-CLASS-136-89	c 03	N72-27053 *	US-PATENT-CLASS-137-81.5	c 10	N71-25899 *	US-PATENT-CLASS-148-175	c 76	N76-25049 *
US-PATENT-CLASS-136-89	c 09	N73-32109 *	US-PATENT-CLASS-137-81.5	c 12	N71-27332 *	US-PATENT-CLASS-148-175	c 44	N76-28635 *
US-PATENT-CLASS-136-89	c 44	N74-14784 *	US-PATENT-CLASS-137-81.5	c 12	N71-28741 *	US-PATENT-CLASS-148-175	c 44	N82-28780 *
US-PATENT-CLASS-136-89	c 44	N76-14600 *	US-PATENT-CLASS-137-81.5	c 28	N72-22772 *	US-PATENT-CLASS-148-175	c 76	N83-20789 *
US-PATENT-CLASS-136-89	c 44	N76-28635 *	US-PATENT-CLASS-137-81.5	c 15	N72-33477 *	US-PATENT-CLASS-148-175	c 76	N85-30922 *
US-PATENT-CLASS-136-89	c 44	N76-31666 *	US-PATENT-CLASS-137-81.5	c 15	N73-13462 *	US-PATENT-CLASS-148-175	c 76	N87-15882 *
US-PATENT-CLASS-136-89	c 44	N77-10635 *	US-PATENT-CLASS-137-81.5	c 28	N73-13773 *	US-PATENT-CLASS-148-187	c 26	N72-17820 *
US-PATENT-CLASS-136-89	c 44	N77-14580 *	US-PATENT-CLASS-137-819	c 33	N74-11050 *	US-PATENT-CLASS-148-187	c 14	N72-28438 *
US-PATENT-CLASS-136-89	c 44	N77-19571 *	US-PATENT-CLASS-137-81	c 05	N72-20097 *	US-PATENT-CLASS-148-187	c 33	N81-26360 *
US-PATENT-CLASS-136-89	c 44	N79-11468 *	US-PATENT-CLASS-137-81	c 14	N73-13418 *	US-PATENT-CLASS-148-187	c 35	N87-14671 *
US-PATENT-CLASS-136-90	c 44	N76-14601 *	US-PATENT-CLASS-137-833	c 33	N74-11050 *	US-PATENT-CLASS-148-188	c 24	N71-10560 *
US-PATENT-CLASS-137-DIG.9	c 54	N76-24900 *	US-PATENT-CLASS-137-838	c 71	N84-28568 *	US-PATENT-CLASS-148-188	c 09	N71-12513 *
US-PATENT-CLASS-137-101	c 07	N77-23106 *	US-PATENT-CLASS-137-840	c 33	N74-11050 *	US-PATENT-CLASS-148-188	c 44	N79-11468 *
US-PATENT-CLASS-137-104	c 37	N78-10467 *	US-PATENT-CLASS-137-886	c 37	N81-17433 *	US-PATENT-CLASS-148-188	c 35	N87-14671 *
US-PATENT-CLASS-137-110	c 54	N76-24900 *	US-PATENT-CLASS-137-887	c 37	N81-17433 *	US-PATENT-CLASS-148-189	c 35	N87-14671 *
US-PATENT-CLASS-137-116.3	c 37	N85-34403 *	US-PATENT-CLASS-137-99	c 37	N85-34403 *	US-PATENT-CLASS-148-190	c 35	N87-14671 *
US-PATENT-CLASS-137-13	c 15	N71-15967 *	US-PATENT-CLASS-138.8R	c 27	N81-15104 *	US-PATENT-CLASS-148-20.3	c 26	N77-20201 *
US-PATENT-CLASS-137-13	c 15	N72-33477 *	US-PATENT-CLASS-138-103	c 52	N80-16725 *	US-PATENT-CLASS-148-2	c 26	N77-20201 *
US-PATENT-CLASS-137-14	c 37	N79-33468 *	US-PATENT-CLASS-138-113	c 34	N75-12222 *	US-PATENT-CLASS-148-2	c 26	N79-22271 *
US-PATENT-CLASS-137-15.1	c 02	N74-20646 *	US-PATENT-CLASS-138-114	c 34	N75-12222 *	US-PATENT-CLASS-148-32	c 26	N78-18183 *
US-PATENT-CLASS-137-15.1	c 07	N74-31270 *	US-PATENT-CLASS-138-119	c 32	N70-41579 *	US-PATENT-CLASS-148-32.5	c 17	N72-22535 *
US-PATENT-CLASS-137-15.1	c 07	N75-24736 *	US-PATENT-CLASS-138-120	c 54	N86-28619 *	US-PATENT-CLASS-148-32.5	c 26	N77-20201 *
US-PATENT-CLASS-137-15.1	c 07	N77-18154 *	US-PATENT-CLASS-138-120	c 54	N86-28620 *	US-PATENT-CLASS-148-32.5	c 26	N77-32280 *
US-PATENT-CLASS-137-15.1	c 07	N79-14096 *	US-PATENT-CLASS-138-120	c 54	N86-29507 * #	US-PATENT-CLASS-148-32.5	c 26	N78-18183 *

US-PATENT-CLASS-148-32	c 26	N77-32279 *	US-PATENT-CLASS-156-DIG.64	c 76	N92-21499 *	US-PATENT-CLASS-156-286	c 37	N87-23981 *
US-PATENT-CLASS-148-32	c 26	N80-23419 *	US-PATENT-CLASS-156-DIG.65	c 76	N79-11920 *	US-PATENT-CLASS-156-286	c 74	N87-28416 *
US-PATENT-CLASS-148-33.2	c 76	N85-30922 *	US-PATENT-CLASS-156-DIG.65	c 76	N85-30922 *	US-PATENT-CLASS-156-289	c 24	N78-17149 *
US-PATENT-CLASS-148-402	c 52	N92-33032 *	US-PATENT-CLASS-156-DIG.66	c 76	N83-35888 *	US-PATENT-CLASS-156-289	c 24	N78-17150 *
US-PATENT-CLASS-148-410	c 26	N87-28647 *	US-PATENT-CLASS-156-DIG.70	c 76	N88-24544 *	US-PATENT-CLASS-156-289	c 52	N84-28389 *
US-PATENT-CLASS-148-416	c 26	N89-28621 *	US-PATENT-CLASS-156-DIG.70	c 76	N88-24545 *	US-PATENT-CLASS-156-289	c 37	N87-23981 *
US-PATENT-CLASS-148-417	c 26	N89-28621 *	US-PATENT-CLASS-156-DIG.72	c 76	N88-24544 *	US-PATENT-CLASS-156-289	c 24	N90-25197 *
US-PATENT-CLASS-148-428	c 26	N82-31505 *	US-PATENT-CLASS-156-DIG.72	c 76	N88-24545 *	US-PATENT-CLASS-156-290	c 24	N81-33235 *
US-PATENT-CLASS-148-429	c 26	N87-14482 *	US-PATENT-CLASS-156-DIG.72	c 76	N90-23242 *	US-PATENT-CLASS-156-292	c 27	N80-32516 *
US-PATENT-CLASS-148-4	c 09	N90-23415 *	US-PATENT-CLASS-156-DIG.73	c 76	N83-35888 *	US-PATENT-CLASS-156-292	c 24	N81-17170 *
US-PATENT-CLASS-148-6.11	c 15	N71-24875 *	US-PATENT-CLASS-156-DIG.73	c 27	N83-36220 *	US-PATENT-CLASS-156-294	c 37	N81-14317 *
US-PATENT-CLASS-148-6.16	c 18	N71-23047 *	US-PATENT-CLASS-156-DIG.82	c 76	N88-24544 *	US-PATENT-CLASS-156-294	c 24	N81-29163 *
US-PATENT-CLASS-148-6.20	c 17	N71-23828 *	US-PATENT-CLASS-156-DIG.82	c 76	N88-24545 *	US-PATENT-CLASS-156-294	c 35	N84-12443 *
US-PATENT-CLASS-148-6.3	c 17	N71-33408 *	US-PATENT-CLASS-156-DIG.84	c 76	N88-24545 *	US-PATENT-CLASS-156-295	c 27	N81-14077 *
US-PATENT-CLASS-148-6.3	c 44	N79-18444 *	US-PATENT-CLASS-156-DIG.88	c 76	N79-11920 *	US-PATENT-CLASS-156-297	c 27	N89-12741 *
US-PATENT-CLASS-148-6.3	c 26	N87-25455 *	US-PATENT-CLASS-156-DIG.88	c 76	N80-32245 *	US-PATENT-CLASS-156-298	c 37	N87-23981 *
US-PATENT-CLASS-148-6	c 18	N71-29040 *	US-PATENT-CLASS-156-DIG.88	c 76	N84-35113 *	US-PATENT-CLASS-156-299	c 27	N89-12741 *
US-PATENT-CLASS-148-6	c 76	N79-16678 *	US-PATENT-CLASS-156-DIG.88	c 76	N85-30922 *	US-PATENT-CLASS-156-300	c 24	N78-17150 *
US-PATENT-CLASS-148-902	c 09	N90-23415 *	US-PATENT-CLASS-156-DIG.88	c 76	N86-28760 *	US-PATENT-CLASS-156-300	c 44	N80-18550 *
US-PATENT-CLASS-148-903	c 09	N90-23415 *	US-PATENT-CLASS-156-DIG.89	c 27	N83-36220 *	US-PATENT-CLASS-156-304.3	c 27	N84-22748 *
US-PATENT-CLASS-149-105	c 28	N78-31255 *	US-PATENT-CLASS-156-DIG.89	c 76	N88-24545 *	US-PATENT-CLASS-156-304.6	c 27	N84-22748 *
US-PATENT-CLASS-149-108.4	c 28	N80-23471 *	US-PATENT-CLASS-156-DIG.92	c 76	N88-24545 *	US-PATENT-CLASS-156-306	c 24	N78-17150 *
US-PATENT-CLASS-149-108.4	c 28	N81-15119 *	US-PATENT-CLASS-156-DIG.96	c 76	N80-32244 *	US-PATENT-CLASS-156-307.1	c 37	N87-23981 *
US-PATENT-CLASS-149-109	c 27	N70-41897 *	US-PATENT-CLASS-156-DIG.96	c 33	N81-19389 *	US-PATENT-CLASS-156-307.3	c 27	N82-11206 *
US-PATENT-CLASS-149-111	c 28	N78-31255 *	US-PATENT-CLASS-156-DIG.98	c 76	N84-35113 *	US-PATENT-CLASS-156-307.3	c 37	N87-23981 *
US-PATENT-CLASS-149-15	c 44	N80-20808 *	US-PATENT-CLASS-156-104	c 44	N80-18550 *	US-PATENT-CLASS-156-307.5	c 27	N82-11206 *
US-PATENT-CLASS-149-17	c 28	N74-33209 *	US-PATENT-CLASS-156-153	c 24	N90-25197 *	US-PATENT-CLASS-156-307.7	c 37	N87-23981 *
US-PATENT-CLASS-149-19.2	c 28	N80-28536 *	US-PATENT-CLASS-156-154	c 24	N78-17150 *	US-PATENT-CLASS-156-307.7	c 35	N88-30108 *
US-PATENT-CLASS-149-19.4	c 28	N78-31255 *	US-PATENT-CLASS-156-154	c 27	N81-14077 *	US-PATENT-CLASS-156-307	c 27	N86-20561 *
US-PATENT-CLASS-149-19.4	c 20	N78-32179 *	US-PATENT-CLASS-156-157	c 33	N82-26571 *	US-PATENT-CLASS-156-308	c 05	N72-25121 *
US-PATENT-CLASS-149-19.4	c 28	N79-28342 *	US-PATENT-CLASS-156-160	c 27	N81-14077 *	US-PATENT-CLASS-156-309.9	c 27	N86-20561 *
US-PATENT-CLASS-149-19.8	c 28	N78-31255 *	US-PATENT-CLASS-156-161	c 24	N81-29163 *	US-PATENT-CLASS-156-309	c 31	N74-18089 *
US-PATENT-CLASS-149-19.92	c 28	N79-14228 *	US-PATENT-CLASS-156-163	c 27	N81-14077 *	US-PATENT-CLASS-156-309	c 27	N78-17205 *
US-PATENT-CLASS-149-19.9	c 28	N79-14228 *	US-PATENT-CLASS-156-163	c 74	N87-28416 *	US-PATENT-CLASS-156-311	c 24	N78-17150 *
US-PATENT-CLASS-149-19.9	c 28	N79-28342 *	US-PATENT-CLASS-156-165	c 24	N81-29163 *	US-PATENT-CLASS-156-312	c 44	N80-18550 *
US-PATENT-CLASS-149-19.9	c 28	N80-28536 *	US-PATENT-CLASS-156-166	c 74	N85-29749 *	US-PATENT-CLASS-156-315	c 27	N82-24340 *
US-PATENT-CLASS-149-19	c 27	N71-14090 *	US-PATENT-CLASS-156-166	c 24	N92-10070 *	US-PATENT-CLASS-156-320	c 15	N72-11392 *
US-PATENT-CLASS-149-19	c 27	N72-25699 *	US-PATENT-CLASS-156-16	c 74	N75-12732 *	US-PATENT-CLASS-156-323	c 27	N81-14077 *
US-PATENT-CLASS-149-19	c 27	N73-16764 *	US-PATENT-CLASS-156-172	c 15	N71-17651 *	US-PATENT-CLASS-156-329	c 27	N82-29456 *
US-PATENT-CLASS-149-1	c 23	N71-16212 *	US-PATENT-CLASS-156-172	c 24	N91-25199 *	US-PATENT-CLASS-156-330	c 24	N81-14000 *
US-PATENT-CLASS-149-1	c 06	N73-30097 *	US-PATENT-CLASS-156-17	c 76	N79-21910 *	US-PATENT-CLASS-156-331.5	c 27	N82-11206 *
US-PATENT-CLASS-149-1	c 28	N80-20402 *	US-PATENT-CLASS-156-187	c 24	N91-25199 *	US-PATENT-CLASS-156-331.5	c 27	N86-20561 *
US-PATENT-CLASS-149-1	c 28	N81-14103 *	US-PATENT-CLASS-156-18	c 26	N73-26752 *	US-PATENT-CLASS-156-331	c 37	N74-18126 *
US-PATENT-CLASS-149-20	c 27	N72-25699 *	US-PATENT-CLASS-156-18	c 74	N75-12732 *	US-PATENT-CLASS-156-331	c 27	N78-17205 *
US-PATENT-CLASS-149-20	c 28	N79-14228 *	US-PATENT-CLASS-156-191	c 52	N84-28389 *	US-PATENT-CLASS-156-331	c 24	N79-16915 *
US-PATENT-CLASS-149-20	c 28	N79-28342 *	US-PATENT-CLASS-156-212	c 03	N71-26726 *	US-PATENT-CLASS-156-331	c 27	N81-14077 *
US-PATENT-CLASS-149-20	c 28	N80-28536 *	US-PATENT-CLASS-156-212	c 24	N80-26388 *	US-PATENT-CLASS-156-338	c 27	N82-24340 *
US-PATENT-CLASS-149-2	c 12	N70-40124 *	US-PATENT-CLASS-156-212	c 27	N81-14077 *	US-PATENT-CLASS-156-344	c 28	N81-14103 *
US-PATENT-CLASS-149-36	c 27	N72-25699 *	US-PATENT-CLASS-156-213	c 24	N80-26388 *	US-PATENT-CLASS-156-344	c 31	N83-34073 *
US-PATENT-CLASS-149-36	c 27	N73-16764 *	US-PATENT-CLASS-156-215	c 35	N84-12443 *	US-PATENT-CLASS-156-344	c 31	N90-19427 *
US-PATENT-CLASS-149-36	c 06	N73-30097 *	US-PATENT-CLASS-156-218	c 54	N74-32546 *	US-PATENT-CLASS-156-344	c 24	N90-25197 *
US-PATENT-CLASS-149-36	c 24	N76-14203 *	US-PATENT-CLASS-156-229	c 24	N77-28215 *	US-PATENT-CLASS-156-345	c 15	N70-42033 *
US-PATENT-CLASS-149-37	c 44	N80-20808 *	US-PATENT-CLASS-156-229	c 74	N87-28416 *	US-PATENT-CLASS-156-345	c 31	N87-21160 *
US-PATENT-CLASS-149-42	c 20	N78-32179 *	US-PATENT-CLASS-156-230	c 35	N84-12443 *	US-PATENT-CLASS-156-345	c 25	N91-31258 *
US-PATENT-CLASS-149-43	c 20	N78-32179 *	US-PATENT-CLASS-156-233	c 35	N88-30108 *	US-PATENT-CLASS-156-379.7	c 33	N82-26571 *
US-PATENT-CLASS-149-44	c 20	N78-32179 *	US-PATENT-CLASS-156-235	c 35	N84-12443 *	US-PATENT-CLASS-156-380.2	c 31	N85-29083 *
US-PATENT-CLASS-149-60	c 28	N74-33209 *	US-PATENT-CLASS-156-242	c 15	N69-24322 *	US-PATENT-CLASS-156-382	c 37	N76-21554 *
US-PATENT-CLASS-149-76	c 28	N74-33209 *	US-PATENT-CLASS-156-242	c 37	N76-24575 *	US-PATENT-CLASS-156-382	c 52	N84-28389 *
US-PATENT-CLASS-149-76	c 20	N78-32179 *	US-PATENT-CLASS-156-242	c 24	N81-33235 *	US-PATENT-CLASS-156-382	c 74	N87-28416 *
US-PATENT-CLASS-149-83	c 20	N78-32179 *	US-PATENT-CLASS-156-245	c 31	N74-18089 *	US-PATENT-CLASS-156-391	c 35	N84-12443 *
US-PATENT-CLASS-149-85	c 20	N78-32179 *	US-PATENT-CLASS-156-245	c 24	N78-17149 *	US-PATENT-CLASS-156-3	c 17	N71-16044 *
US-PATENT-CLASS-149-88	c 28	N78-31255 *	US-PATENT-CLASS-156-245	c 24	N81-33235 *	US-PATENT-CLASS-156-3	c 15	N71-21404 *
US-PATENT-CLASS-149-92	c 27	N72-25699 *	US-PATENT-CLASS-156-247	c 31	N74-18089 *	US-PATENT-CLASS-156-3	c 15	N71-24047 *
US-PATENT-CLASS-149-92	c 28	N78-31255 *	US-PATENT-CLASS-156-247	c 35	N88-30108 *	US-PATENT-CLASS-156-3	c 06	N72-21094 *
US-PATENT-CLASS-149-93	c 28	N78-31255 *	US-PATENT-CLASS-156-249	c 24	N90-25197 *	US-PATENT-CLASS-156-423	c 35	N84-12443 *
US-PATENT-CLASS-15-143	c 15	N72-11390 *	US-PATENT-CLASS-156-250	c 03	N72-25019 *	US-PATENT-CLASS-156-494	c 74	N87-28416 *
US-PATENT-CLASS-15-210	c 15	N72-11390 *	US-PATENT-CLASS-156-252	c 24	N81-33235 *	US-PATENT-CLASS-156-499	c 27	N84-22748 *
US-PATENT-CLASS-15-230.11	c 37	N92-28754 *	US-PATENT-CLASS-156-264	c 05	N72-25121 *	US-PATENT-CLASS-156-510	c 15	N71-17687 *
US-PATENT-CLASS-15-230.16	c 37	N79-10422 *	US-PATENT-CLASS-156-264	c 24	N78-17150 *	US-PATENT-CLASS-156-510	c 03	N72-25019 *
US-PATENT-CLASS-15-230.17	c 37	N79-10422 *	US-PATENT-CLASS-156-264	c 24	N81-33235 *	US-PATENT-CLASS-156-52	c 31	N79-21226 *
US-PATENT-CLASS-15-406	c 37	N85-21652 *	US-PATENT-CLASS-156-264	c 31	N83-34073 *	US-PATENT-CLASS-156-540	c 35	N84-12443 *
US-PATENT-CLASS-15-415	c 14	N73-30395 *	US-PATENT-CLASS-156-267	c 27	N81-14077 *	US-PATENT-CLASS-156-545	c 15	N71-24164 *
US-PATENT-CLASS-150-11	c 37	N81-14317 *	US-PATENT-CLASS-156-272.4	c 31	N85-29083 *	US-PATENT-CLASS-156-556	c 37	N76-21554 *
US-PATENT-CLASS-150-1	c 52	N79-14749 *	US-PATENT-CLASS-156-272.4	c 35	N88-30108 *	US-PATENT-CLASS-156-59	c 31	N83-34073 *
US-PATENT-CLASS-151-41.76	c 37	N80-23653 *	US-PATENT-CLASS-156-272	c 27	N80-32516 *	US-PATENT-CLASS-156-600	c 27	N83-36220 *
US-PATENT-CLASS-152-11	c 31	N71-18611 *	US-PATENT-CLASS-156-272	c 33	N82-26571 *	US-PATENT-CLASS-156-600	c 76	N90-23242 *
US-PATENT-CLASS-152-225	c 15	N71-27091 *	US-PATENT-CLASS-156-273.7	c 27	N85-20125 *	US-PATENT-CLASS-156-600	c 76	N90-24169 *
US-PATENT-CLASS-152-250	c 15	N71-27091 *	US-PATENT-CLASS-156-273.9	c 31	N85-29083 *	US-PATENT-CLASS-156-600	c 76	N92-34171 *
US-PATENT-CLASS-152-330RF	c 37	N81-24443 *	US-PATENT-CLASS-156-274.8	c 35	N88-30108 *	US-PATENT-CLASS-156-601	c 76	N77-32919 *
US-PATENT-CLASS-152-353G	c 37	N81-24443 *	US-PATENT-CLASS-156-275.5	c 35	N88-30108 *	US-PATENT-CLASS-156-601	c 76	N80-32245 *
US-PATENT-CLASS-152-353R	c 37	N81-24443 *	US-PATENT-CLASS-156-278	c 44	N80-18550 *	US-PATENT-CLASS-156-601	c 76	N90-24169 *
US-PATENT-CLASS-152-379.4	c 37	N81-24443 *	US-PATENT-CLASS-156-283	c 24	N92-10070 *	US-PATENT-CLASS-156-602	c 76	N82-30105 *
US-PATENT-CLASS-156.307.7	c 27	N82-11206 *	US-PATENT-CLASS-156-285	c 15	N71-23052 *	US-PATENT-CLASS-156-605	c 44	N80-24741 *
US-PATENT-CLASS-156-DIG.113	c 76	N90-24169 *	US-PATENT-CLASS-156-285	c 18	N73-30532 *	US-PATENT-CLASS-156-607	c 76	N87-23286 *
US-PATENT-CLASS-156-DIG.113	c 76	N92-25398 *	US-PATENT-CLASS-156-285	c 31	N74-18089 *	US-PATENT-CLASS-156-607	c 76	N88-24544 *
US-PATENT-CLASS-156-DIG.6-8	c 76	N79-23798 *	US-PATENT-CLASS-156-285	c 24	N74-27035 *	US-PATENT-CLASS-156-607	c 76	N90-24169 *
US-PATENT-CLASS-156-DIG.62	c 76	N77-32919 *	US-PATENT-CLASS-156-285	c 24	N78-17149 *	US-PATENT-CLASS-156-608	c 76	N79-21129 *
US-PATENT-CLASS-156-DIG.62	c 35	N83-24828 *	US-PATENT-CLASS-156-285	c 24	N78-17150 *	US-PATENT-CLASS-156-608	c 33	N81-19389 *
US-PATENT-CLASS-156-DIG.62	c 33	N85-29142 *	US-PATENT-CLASS-156-285	c 44	N80-18550 *	US-PATENT-CLASS-156-608	c 76	N82-30105 *
US-PATENT-CLASS-156-DIG.62	c 76	N90-23242 *	US-PATENT-CLASS-156-285	c 24	N80-26388 *	US-PATENT-CLASS-156-608	c 76	N83-20789 *
US-PATENT-CLASS-156-DIG.62	c 76	N90-24169 *	US-PATENT-CLASS-156-285	c 24	N81-29163 *	US-PATENT-CLASS-156-608	c 76	N83-35888 *
US-PATENT-CLASS-156-DIG.62	c 76	N92-25398 *	US-PATENT-CLASS-156-285	c 24	N81-33235 *	US-PATENT-CLASS-156-608	c 76	N84-35113 *
US-PATENT-CLASS-156-DIG.64	c 76	N79-11920 *	US-PATENT-CLASS-156-285	c 52	N84-28389 *	US-PATENT-CLASS-156-608	c 76	N90-23242 *
US-PATENT-CLASS-156-DIG.64	c 44	N80-24741 *	US-PATENT-CLASS-156-286	c 37	N76-21554 *	US-PATENT-CLASS-156-608	c 76	N91-15898 *
US-PATENT-CLASS-156-DIG.64	c 76	N80-32245 *	US-PATENT-CLASS-156-286	c 37	N76-24575 *	US-PATENT-CLASS-156-608	c 76	N92-21499 *
US-PATENT-CLASS-156-DIG.64	c 76	N84-35113 *	US-PATENT-CLASS-156-286	c 24	N78-17150 *	US-PATENT-CLASS-156-60	c 15	N71-22713 *

US-PATENT-CLASS-156-610	c 76	N76-25049 *	US-PATENT-CLASS-16-347	c 18	N88-23827 *	US-PATENT-CLASS-165-109.1	c 34	N92-28752 *
US-PATENT-CLASS-156-610	c 27	N83-36220 *	US-PATENT-CLASS-16-349	c 18	N88-23827 *	US-PATENT-CLASS-165-109	c 35	N74-15093 *
US-PATENT-CLASS-156-610	c 76	N86-28760 *	US-PATENT-CLASS-16-370	c 18	N87-14373 *	US-PATENT-CLASS-165-110	c 44	N76-31667 *
US-PATENT-CLASS-156-612	c 76	N76-25049 *	US-PATENT-CLASS-16-390	c 31	N86-19479 *	US-PATENT-CLASS-165-110	c 77	N75-20139 *
US-PATENT-CLASS-156-612	c 44	N76-28635 *	US-PATENT-CLASS-160-23R	c 37	N87-17036 *	US-PATENT-CLASS-165-111	c 34	N92-28752 *
US-PATENT-CLASS-156-612	c 76	N85-30922 *	US-PATENT-CLASS-160-265	c 37	N87-17036 *	US-PATENT-CLASS-165-111	c 77	N75-20139 *
US-PATENT-CLASS-156-613	c 76	N76-25049 *	US-PATENT-CLASS-161-115	c 18	N70-41583 *	US-PATENT-CLASS-165-12	c 33	N71-24276 *
US-PATENT-CLASS-156-613	c 44	N76-28635 *	US-PATENT-CLASS-161-116	c 37	N74-23064 *	US-PATENT-CLASS-165-12	c 34	N83-34221 *
US-PATENT-CLASS-156-614	c 44	N76-28635 *	US-PATENT-CLASS-161-127	c 18	N72-25540 *	US-PATENT-CLASS-165-133	c 33	N71-16277 *
US-PATENT-CLASS-156-616.41	c 76	N90-20896 *	US-PATENT-CLASS-161-127	c 18	N72-25541 *	US-PATENT-CLASS-165-133	c 33	N71-25353 *
US-PATENT-CLASS-156-616.4	c 76	N90-20896 *	US-PATENT-CLASS-161-161	c 33	N71-25351 *	US-PATENT-CLASS-165-133	c 33	N72-20915 *
US-PATENT-CLASS-156-617.1	c 76	N91-15898 *	US-PATENT-CLASS-161-182	c 15	N69-39735 *	US-PATENT-CLASS-165-133	c 44	N76-23675 *
US-PATENT-CLASS-156-617.1	c 76	N92-21499 *	US-PATENT-CLASS-161-182	c 37	N74-18126 *	US-PATENT-CLASS-165-133	c 34	N90-20323 *
US-PATENT-CLASS-156-617-H	c 76	N87-23286 *	US-PATENT-CLASS-161-189	c 23	N71-15978 *	US-PATENT-CLASS-165-134R	c 74	N83-19596 *
US-PATENT-CLASS-156-617-SP	c 76	N84-35113 *	US-PATENT-CLASS-161-192	c 37	N74-18126 *	US-PATENT-CLASS-165-134	c 34	N78-17336 *
US-PATENT-CLASS-156-617-SP	c 76	N87-23286 *	US-PATENT-CLASS-161-196	c 37	N74-21063 *	US-PATENT-CLASS-165-135	c 34	N84-22903 *
US-PATENT-CLASS-156-617-V	c 76	N84-35113 *	US-PATENT-CLASS-161-214	c 06	N73-27980 *	US-PATENT-CLASS-165-138	c 09	N71-24807 *
US-PATENT-CLASS-156-617SP	c 76	N79-11920 *	US-PATENT-CLASS-161-227	c 06	N73-27980 *	US-PATENT-CLASS-165-13	c 34	N88-23958 *
US-PATENT-CLASS-156-617SP	c 76	N79-23798 *	US-PATENT-CLASS-161-42	c 37	N74-18126 *	US-PATENT-CLASS-165-141	c 28	N73-32606 *
US-PATENT-CLASS-156-617SP	c 44	N80-24741 *	US-PATENT-CLASS-161-43	c 37	N74-18126 *	US-PATENT-CLASS-165-146	c 34	N79-13289 *
US-PATENT-CLASS-156-617SP	c 76	N80-32245 *	US-PATENT-CLASS-161-67	c 33	N72-17947 *	US-PATENT-CLASS-165-155	c 33	N72-20915 *
US-PATENT-CLASS-156-619	c 76	N77-32919 *	US-PATENT-CLASS-161-68	c 18	N71-21651 *	US-PATENT-CLASS-165-156	c 25	N90-11824 *
US-PATENT-CLASS-156-620.1	c 76	N91-15898 *	US-PATENT-CLASS-161-68	c 18	N72-25540 *	US-PATENT-CLASS-165-158	c 33	N72-20915 *
US-PATENT-CLASS-156-620.1	c 76	N92-21499 *	US-PATENT-CLASS-161-68	c 18	N72-25541 *	US-PATENT-CLASS-165-161	c 33	N72-20915 *
US-PATENT-CLASS-156-620.3	c 76	N92-21499 *	US-PATENT-CLASS-161-69	c 33	N71-24858 *	US-PATENT-CLASS-165-164	c 34	N77-10463 *
US-PATENT-CLASS-156-620.4	c 76	N92-21499 *	US-PATENT-CLASS-161-7	c 18	N72-25540 *	US-PATENT-CLASS-165-166	c 54	N77-32722 *
US-PATENT-CLASS-156-620.76	c 76	N88-24545 *	US-PATENT-CLASS-161-7	c 18	N72-25541 *	US-PATENT-CLASS-165-169	c 34	N79-13288 *
US-PATENT-CLASS-156-620	c 76	N77-32919 *	US-PATENT-CLASS-161-89	c 17	N71-28747 *	US-PATENT-CLASS-165-169	c 34	N79-13289 *
US-PATENT-CLASS-156-621	c 76	N88-14835 *	US-PATENT-CLASS-161-92	c 37	N75-26371 *	US-PATENT-CLASS-165-16	c 31	N80-32583 *
US-PATENT-CLASS-156-621	c 76	N88-24544 *	US-PATENT-CLASS-161-93	c 18	N73-12604 *	US-PATENT-CLASS-165-170	c 34	N77-10463 *
US-PATENT-CLASS-156-621	c 76	N92-34171 *	US-PATENT-CLASS-161-93	c 37	N74-18126 *	US-PATENT-CLASS-165-170	c 34	N88-29132 *
US-PATENT-CLASS-156-622	c 76	N88-14835 *	US-PATENT-CLASS-161-93	c 37	N75-26371 *	US-PATENT-CLASS-165-174	c 33	N72-20915 *
US-PATENT-CLASS-156-623Q	c 76	N85-29800 *	US-PATENT-CLASS-162-102	c 24	N76-14204 *	US-PATENT-CLASS-165-180	c 34	N90-20323 *
US-PATENT-CLASS-156-624	c 76	N83-20789 *	US-PATENT-CLASS-162-12	c 85	N79-17747 *	US-PATENT-CLASS-165-185	c 28	N73-32606 *
US-PATENT-CLASS-156-624	c 76	N86-28760 *	US-PATENT-CLASS-162-153	c 24	N76-14204 *	US-PATENT-CLASS-165-185	c 34	N83-28356 *
US-PATENT-CLASS-156-624	c 76	N88-14835 *	US-PATENT-CLASS-162-222	c 24	N76-14204 *	US-PATENT-CLASS-165-185	c 31	N91-27385 *
US-PATENT-CLASS-156-624	c 76	N88-24544 *	US-PATENT-CLASS-162-228	c 24	N76-14204 *	US-PATENT-CLASS-165-1	c 09	N70-1717 *
US-PATENT-CLASS-156-625	c 24	N91-25199 *	US-PATENT-CLASS-162-29	c 85	N79-17747 *	US-PATENT-CLASS-165-1	c 34	N75-12222 *
US-PATENT-CLASS-156-630	c 35	N84-22930 *	US-PATENT-CLASS-164-105	c 20	N79-21123 *	US-PATENT-CLASS-165-1	c 34	N85-29180 *
US-PATENT-CLASS-156-633	c 44	N78-25529 *	US-PATENT-CLASS-164-113	c 31	N90-21216 *	US-PATENT-CLASS-165-1	c 34	N87-22950 *
US-PATENT-CLASS-156-634	c 24	N91-25199 *	US-PATENT-CLASS-164-119	c 24	N84-16262 *	US-PATENT-CLASS-165-1	c 34	N88-23958 *
US-PATENT-CLASS-156-635	c 76	N83-20789 *	US-PATENT-CLASS-164-122.1	c 26	N91-14462 *	US-PATENT-CLASS-165-1	c 31	N91-27385 *
US-PATENT-CLASS-156-637	c 76	N92-10681 *	US-PATENT-CLASS-164-132	c 37	N76-23570 *	US-PATENT-CLASS-165-1	c 54	N92-21589 *
US-PATENT-CLASS-156-643	c 52	N84-23095 *	US-PATENT-CLASS-164-284	c 31	N90-21216 *	US-PATENT-CLASS-165-20	c 03	N72-28025 *
US-PATENT-CLASS-156-643	c 31	N87-21160 *	US-PATENT-CLASS-164-331.12	c 27	N83-34041 *	US-PATENT-CLASS-165-20	c 35	N91-21496 *
US-PATENT-CLASS-156-643	c 25	N91-31258 *	US-PATENT-CLASS-164-338.1	c 26	N91-14462 *	US-PATENT-CLASS-165-2	c 33	N71-24876 *
US-PATENT-CLASS-156-643	c 76	N92-22040 *	US-PATENT-CLASS-164-60	c 24	N77-27187 *	US-PATENT-CLASS-165-2	c 35	N74-15093 *
US-PATENT-CLASS-156-644	c 52	N84-23095 *	US-PATENT-CLASS-165-DIG.6	c 34	N84-22903 *	US-PATENT-CLASS-165-2	c 44	N77-32581 *
US-PATENT-CLASS-156-645	c 27	N77-32308 *	US-PATENT-CLASS-165-104.14	c 05	N81-26114 *	US-PATENT-CLASS-165-2	c 44	N78-17460 *
US-PATENT-CLASS-156-646	c 31	N87-21160 *	US-PATENT-CLASS-165-104.14	c 34	N85-29179 *	US-PATENT-CLASS-165-2	c 51	N79-10694 *
US-PATENT-CLASS-156-647	c 33	N81-26360 *	US-PATENT-CLASS-165-104.14	c 34	N86-27593 *	US-PATENT-CLASS-165-2	c 27	N83-36220 *
US-PATENT-CLASS-156-648	c 33	N81-26360 *	US-PATENT-CLASS-165-104.14	c 34	N87-22950 *	US-PATENT-CLASS-165-30	c 51	N79-10694 *
US-PATENT-CLASS-156-649	c 33	N81-26360 *	US-PATENT-CLASS-165-104.14	c 34	N88-23958 *	US-PATENT-CLASS-165-30	c 31	N79-17029 *
US-PATENT-CLASS-156-654	c 76	N83-20789 *	US-PATENT-CLASS-165-104.14	c 34	N89-14392 *	US-PATENT-CLASS-165-30	c 35	N86-20750 *
US-PATENT-CLASS-156-654	c 35	N84-22930 *	US-PATENT-CLASS-165-104.14	c 34	N91-21473 *	US-PATENT-CLASS-165-32	c 31	N73-30829 *
US-PATENT-CLASS-156-656	c 25	N92-25399 *	US-PATENT-CLASS-165-104.14	c 34	N92-29125 *	US-PATENT-CLASS-165-32	c 33	N73-32818 *
US-PATENT-CLASS-156-659.1	c 31	N87-21160 *	US-PATENT-CLASS-165-104.22	c 34	N92-29125 *	US-PATENT-CLASS-165-32	c 34	N78-17337 *
US-PATENT-CLASS-156-661.1	c 31	N87-21160 *	US-PATENT-CLASS-165-104.25	c 34	N87-22950 *	US-PATENT-CLASS-165-32	c 34	N79-31523 *
US-PATENT-CLASS-156-662	c 76	N83-20789 *	US-PATENT-CLASS-165-104.26	c 74	N83-19596 *	US-PATENT-CLASS-165-32	c 44	N80-20810 *
US-PATENT-CLASS-156-663	c 27	N77-32308 *	US-PATENT-CLASS-165-104.26	c 34	N83-35307 *	US-PATENT-CLASS-165-32	c 33	N82-24419 *
US-PATENT-CLASS-156-664	c 25	N92-25399 *	US-PATENT-CLASS-165-104.26	c 34	N85-21568 *	US-PATENT-CLASS-165-32	c 34	N83-28356 *
US-PATENT-CLASS-156-668	c 52	N84-23095 *	US-PATENT-CLASS-165-104.26	c 34	N85-29180 *	US-PATENT-CLASS-165-32	c 34	N83-35307 *
US-PATENT-CLASS-156-668	c 25	N91-31258 *	US-PATENT-CLASS-165-104.26	c 34	N86-27593 *	US-PATENT-CLASS-165-32	c 34	N84-14461 *
US-PATENT-CLASS-156-66	c 15	N72-11392 *	US-PATENT-CLASS-165-104.26	c 34	N87-22950 *	US-PATENT-CLASS-165-32	c 34	N85-29179 *
US-PATENT-CLASS-156-71	c 33	N82-26571 *	US-PATENT-CLASS-165-104.26	c 34	N88-29133 *	US-PATENT-CLASS-165-32	c 34	N90-21999 *
US-PATENT-CLASS-156-71	c 35	N84-12443 *	US-PATENT-CLASS-165-104.26	c 34	N89-14392 *	US-PATENT-CLASS-165-34	c 34	N87-22950 *
US-PATENT-CLASS-156-74	c 24	N81-29163 *	US-PATENT-CLASS-165-104.26	c 27	N90-23541 *	US-PATENT-CLASS-165-3	c 03	N72-28025 *
US-PATENT-CLASS-156-7	c 74	N75-12732 *	US-PATENT-CLASS-165-104.26	c 31	N90-23587 *	US-PATENT-CLASS-165-41	c 34	N84-14461 *
US-PATENT-CLASS-156-81	c 27	N84-22748 *	US-PATENT-CLASS-165-104.31	c 31	N91-15424 *	US-PATENT-CLASS-165-41	c 34	N86-27593 *
US-PATENT-CLASS-156-84	c 15	N72-16330 *	US-PATENT-CLASS-165-104.31	c 34	N92-28752 *	US-PATENT-CLASS-165-41	c 34	N88-23958 *
US-PATENT-CLASS-156-84	c 37	N82-24491 *	US-PATENT-CLASS-165-104.34	c 34	N92-28752 *	US-PATENT-CLASS-165-41	c 35	N89-12048 *
US-PATENT-CLASS-156-85	c 37	N82-24491 *	US-PATENT-CLASS-165-104	c 33	N71-25353 *	US-PATENT-CLASS-165-41	c 34	N90-20323 *
US-PATENT-CLASS-156-86	c 15	N72-16330 *	US-PATENT-CLASS-165-105	c 34	N90-20323 *	US-PATENT-CLASS-165-41	c 27	N90-23541 *
US-PATENT-CLASS-156-86	c 37	N82-24491 *	US-PATENT-CLASS-165-105	c 09	N71-24807 *	US-PATENT-CLASS-165-41	c 31	N90-23587 *
US-PATENT-CLASS-156-87	c 37	N87-23981 *	US-PATENT-CLASS-165-105	c 33	N71-25353 *	US-PATENT-CLASS-165-41	c 31	N91-15424 *
US-PATENT-CLASS-156-89	c 37	N75-15992 *	US-PATENT-CLASS-165-105	c 33	N72-17948 *	US-PATENT-CLASS-165-41	c 54	N92-21589 *
US-PATENT-CLASS-156-89	c 24	N79-25143 *	US-PATENT-CLASS-165-105	c 31	N73-30829 *	US-PATENT-CLASS-165-41	c 34	N92-28752 *
US-PATENT-CLASS-156-89	c 27	N84-22748 *	US-PATENT-CLASS-165-105	c 28	N73-32606 *	US-PATENT-CLASS-165-41	c 34	N92-29125 *
US-PATENT-CLASS-156-904	c 31	N87-21160 *	US-PATENT-CLASS-165-105	c 34	N74-18552 *	US-PATENT-CLASS-165-44	c 15	N71-26611 *
US-PATENT-CLASS-156-905	c 35	N84-22930 *	US-PATENT-CLASS-165-105	c 34	N75-12222 *	US-PATENT-CLASS-165-46	c 05	N71-19439 *
US-PATENT-CLASS-156-94	c 32	N74-27612 *	US-PATENT-CLASS-165-105	c 44	N75-32581 *	US-PATENT-CLASS-165-46	c 05	N71-24147 *
US-PATENT-CLASS-156-94	c 24	N74-30001 *	US-PATENT-CLASS-165-105	c 44	N76-16612 *	US-PATENT-CLASS-165-46	c 05	N73-20137 *
US-PATENT-CLASS-156-99	c 37	N75-15992 *	US-PATENT-CLASS-165-105	c 34	N76-17317 *	US-PATENT-CLASS-165-46	c 05	N73-26071 *
US-PATENT-CLASS-159-3	c 25	N88-23846 *	US-PATENT-CLASS-165-105	c 34	N76-27515 *	US-PATENT-CLASS-165-46	c 54	N82-29002 *
US-PATENT-CLASS-159-48.2	c 25	N88-23846 *	US-PATENT-CLASS-165-105	c 34	N77-32413 *	US-PATENT-CLASS-165-46	c 34	N90-21999 *
US-PATENT-CLASS-159-900	c 25	N88-23846 *	US-PATENT-CLASS-165-105	c 25	N78-10224 *	US-PATENT-CLASS-165-47	c 33	N71-29052 *
US-PATENT-CLASS-16-111R	c 37	N92-29092 *	US-PATENT-CLASS-165-105	c 34	N78-17336 *	US-PATENT-CLASS-165-47	c 31	N73-30829 *
US-PATENT-CLASS-16-114R	c 37	N92-29092 *	US-PATENT-CLASS-165-105	c 34	N78-17337 *	US-PATENT-CLASS-165-47	c 34	N75-12222 *
US-PATENT-CLASS-16-242	c 31	N86-19479 *	US-PATENT-CLASS-165-105	c 44	N79-18443 *	US-PATENT-CLASS-165-48.2	c 54	N92-21589 *
US-PATENT-CLASS-16-292	c 18	N88-23827 *	US-PATENT-CLASS-165-105	c 37	N79-28549 *	US-PATENT-CLASS-165-48R	c 35	N85-29214 *
US-PATENT-CLASS-16-294	c 37	N86-19605 *	US-PATENT-CLASS-165-105	c 34	N79-31523 *	US-PATENT-CLASS-165-4	c 34	N92-28752 *
US-PATENT-CLASS-16-294	c 18	N87-14373 *	US-PATENT-CLASS-165-106	c 35	N81-14287 *	US-PATENT-CLASS-165-58	c 27	N83-36220 *
US-PATENT-CLASS-16-297	c 18	N88-23827 *	US-PATENT-CLASS-165-106	c 33	N73-32818 *	US-PATENT-CLASS-165-61	c 34	N83-34221 *
US-PATENT-CLASS-16-326	c 18	N88-23827 *	US-PATENT-CLASS-165-107	c 34	N76-17317 *	US-PATENT-CLASS-165-61	c 35	N85-29214 *
US-PATENT-CLASS-16-332	c 18	N88-23827 *	US-PATENT-CLASS-165-107	c 09	N71-24807 *	US-PATENT-CLASS-165-61	c 35	N86-20750 *
US-PATENT-CLASS-16-345	c 18	N88-23827 *	US-PATENT-CLASS-165-107	c 44	N77-32581 *	US-PATENT-CLASS-165-61	c 31	N89-12785 *

US-PATENT-CLASS-165-64	c 35	N85-29214 *	US-PATENT-CLASS-177-200	c 35	N74-26945 *	US-PATENT-CLASS-178-7.89	c 09	N76-24280 *
US-PATENT-CLASS-165-65	c 35	N86-20750	US-PATENT-CLASS-177-208	c 35	N77-19385 *	US-PATENT-CLASS-178-7.92	c 14	N72-25414 *
US-PATENT-CLASS-165-76	c 34	N83-28356 *	US-PATENT-CLASS-177-210	c 14	N71-10773 *	US-PATENT-CLASS-178-79	c 32	N75-21486 *
US-PATENT-CLASS-165-76	c 37	N86-32736 *	US-PATENT-CLASS-177-211	c 35	N74-26945 *	US-PATENT-CLASS-178-88	c 07	N71-12392 *
US-PATENT-CLASS-165-78	c 34	N90-21999 *	US-PATENT-CLASS-177-246	c 35	N74-26945 *	US-PATENT-CLASS-178-88	c 33	N74-12887 *
US-PATENT-CLASS-165-80E	c 34	N83-34221 *	US-PATENT-CLASS-177-260	c 35	N85-20294 *	US-PATENT-CLASS-178-88	c 32	N74-20809 *
US-PATENT-CLASS-165-81	c 34	N88-29132 *	US-PATENT-CLASS-178-DIG.12	c 07	N72-12081 *	US-PATENT-CLASS-178-88	c 33	N74-27705 *
US-PATENT-CLASS-165-81	c 25	N90-11824	US-PATENT-CLASS-178-DIG.12	c 32	N75-21485 *	US-PATENT-CLASS-178-88	c 33	N76-14371 *
US-PATENT-CLASS-165-83	c 25	N90-11824 *	US-PATENT-CLASS-178-DIG.1	c 36	N74-20009 *	US-PATENT-CLASS-178-88	c 32	N76-16249 *
US-PATENT-CLASS-165-86	c 15	N71-26611 *	US-PATENT-CLASS-178-DIG.1	c 33	N75-30431 *	US-PATENT-CLASS-178-88	c 32	N77-10392 *
US-PATENT-CLASS-165-86	c 33	N71-29046 *	US-PATENT-CLASS-178-DIG.1	c 45	N76-17656 *	US-PATENT-CLASS-178-88	c 32	N77-24331 *
US-PATENT-CLASS-165-86	c 34	N91-21473 *	US-PATENT-CLASS-178-DIG.20	c 18	N76-14186 *	US-PATENT-CLASS-179-1DM	c 71	N79-23753 *
US-PATENT-CLASS-165-86	c 54	N92-21589 *	US-PATENT-CLASS-178-DIG.20	c 23	N72-27728 *	US-PATENT-CLASS-179-1DM	c 71	N79-23753 *
US-PATENT-CLASS-165-90A	c 35	N89-12048 *	US-PATENT-CLASS-178-DIG.20	c 35	N75-19613 *	US-PATENT-CLASS-179-1DM	c 32	N79-23310 *
US-PATENT-CLASS-165-90A	c 31	N91-15424 *	US-PATENT-CLASS-178-DIG.21	c 16	N72-13437 *	US-PATENT-CLASS-179-1P	c 10	N73-12244 *
US-PATENT-CLASS-165-90A	c 54	N92-21589 *	US-PATENT-CLASS-178-DIG.23	c 07	N73-30115 *	US-PATENT-CLASS-179-1P	c 07	N71-33108 *
US-PATENT-CLASS-165-90S	c 34	N88-29133 *	US-PATENT-CLASS-178-DIG.25	c 74	N75-25706 *	US-PATENT-CLASS-179-1SA	c 10	N73-25240 *
US-PATENT-CLASS-165-90S	c 34	N90-20323 *	US-PATENT-CLASS-178-DIG.28	c 08	N72-22164 *	US-PATENT-CLASS-179-1SA	c 32	N76-31372 *
US-PATENT-CLASS-165-90S	c 27	N90-23541 *	US-PATENT-CLASS-178-DIG.29	c 35	N75-25123 *	US-PATENT-CLASS-179-1SA	c 32	N77-30309 *
US-PATENT-CLASS-165-96	c 33	N70-36847 *	US-PATENT-CLASS-178-DIG.32	c 71	N74-21014 *	US-PATENT-CLASS-179-1SP	c 32	N77-30309 *
US-PATENT-CLASS-165-96	c 33	N71-22890 *	US-PATENT-CLASS-178-DIG.35	c 09	N76-24280 *	US-PATENT-CLASS-179-1VC	c 07	N71-33108 *
US-PATENT-CLASS-165-96	c 31	N73-30829 *	US-PATENT-CLASS-178-DIG.36	c 08	N72-22164 *	US-PATENT-CLASS-179-100.2A	c 21	N73-13644 *
US-PATENT-CLASS-165-96	c 33	N73-32818 *	US-PATENT-CLASS-178-DIG.6	c 10	N73-13235 *	US-PATENT-CLASS-179-100.2A	c 32	N74-27612 *
US-PATENT-CLASS-165-96	c 34	N78-17337 *	US-PATENT-CLASS-178-DIG.8	c 14	N72-25412 *	US-PATENT-CLASS-179-100.2B	c 32	N74-27612 *
US-PATENT-CLASS-165-96	c 34	N84-14461 *	US-PATENT-CLASS-178-DIG.8	c 45	N76-17656 *	US-PATENT-CLASS-179-100.2CH	c 36	N74-13205 *
US-PATENT-CLASS-165-96	c 31	N89-12785 *	US-PATENT-CLASS-178-15	c 33	N75-19517 *	US-PATENT-CLASS-179-100.2CH	c 35	N78-29421 *
US-PATENT-CLASS-165-96	c 34	N90-21999 *	US-PATENT-CLASS-178-18	c 10	N73-32143 *	US-PATENT-CLASS-179-100.2CH	c 35	N79-16246 *
US-PATENT-CLASS-165-96	c 34	N91-21473 *	US-PATENT-CLASS-178-22.16	c 32	N82-31583 *	US-PATENT-CLASS-179-100.2C	c 35	N77-21392 *
US-PATENT-CLASS-166-222	c 43	N81-26509 *	US-PATENT-CLASS-178-22.17	c 32	N82-31583 *	US-PATENT-CLASS-179-100.2K	c 07	N72-21119 *
US-PATENT-CLASS-166-248	c 43	N78-14452 *	US-PATENT-CLASS-178-5.2R	c 09	N71-28618 *	US-PATENT-CLASS-179-100.2MD	c 35	N74-11283 *
US-PATENT-CLASS-166-259	c 43	N78-14452 *	US-PATENT-CLASS-178-5.2R	c 07	N72-17109 *	US-PATENT-CLASS-179-100.2T	c 35	N74-11283 *
US-PATENT-CLASS-166-267	c 25	N82-23282 *	US-PATENT-CLASS-178-5.4	c 07	N72-17109 *	US-PATENT-CLASS-179-100.2	c 09	N69-24329 *
US-PATENT-CLASS-166-303	c 25	N82-23282 *	US-PATENT-CLASS-178-5.8R	c 71	N74-21014 *	US-PATENT-CLASS-179-100.2	c 09	N71-25866 *
US-PATENT-CLASS-166-343	c 18	N90-20126 *	US-PATENT-CLASS-178-50	c 08	N72-18184 *	US-PATENT-CLASS-179-100.2	c 08	N71-27210 *
US-PATENT-CLASS-166-63	c 46	N79-22679 *	US-PATENT-CLASS-178-50	c 08	N72-25208 *	US-PATENT-CLASS-179-100.2	c 08	N71-27255 *
US-PATENT-CLASS-166-77	c 43	N81-26509 *	US-PATENT-CLASS-178-52	c 08	N72-22162 *	US-PATENT-CLASS-179-100.2CA	c 09	N72-11224 *
US-PATENT-CLASS-169-28	c 12	N72-21310 *	US-PATENT-CLASS-178-54CF	c 09	N71-28618 *	US-PATENT-CLASS-179-100.2MD	c 09	N72-11224 *
US-PATENT-CLASS-169-36	c 12	N72-21310 *	US-PATENT-CLASS-178-54PE	c 09	N71-28618 *	US-PATENT-CLASS-179-107R	c 33	N78-10375 *
US-PATENT-CLASS-169-47	c 25	N83-36118 *	US-PATENT-CLASS-178-58A	c 32	N75-21486 *	US-PATENT-CLASS-179-15.55R	c 08	N72-11171 *
US-PATENT-CLASS-169-62	c 31	N81-14137 *	US-PATENT-CLASS-178-58R	c 32	N80-18252 *	US-PATENT-CLASS-179-15.55R	c 08	N72-33172 *
US-PATENT-CLASS-169-70	c 31	N81-14137 *	US-PATENT-CLASS-178-6.5	c 23	N72-27728 *	US-PATENT-CLASS-179-15AN	c 07	N73-16121 *
US-PATENT-CLASS-173-131	c 15	N73-13463 *	US-PATENT-CLASS-178-6.6DD	c 07	N73-30115 *	US-PATENT-CLASS-179-15AT	c 32	N74-30524 *
US-PATENT-CLASS-173-132	c 37	N76-18454 *	US-PATENT-CLASS-178-6.6DD	c 35	N74-11283 *	US-PATENT-CLASS-179-15A	c 08	N72-22162 *
US-PATENT-CLASS-174-DIG.6	c 26	N73-26752 *	US-PATENT-CLASS-178-6.6	c 07	N71-11300 *	US-PATENT-CLASS-179-15A	c 07	N73-26118 *
US-PATENT-CLASS-174-DIG.6	c 26	N73-32571 *	US-PATENT-CLASS-178-6.6	c 07	N71-26102 *	US-PATENT-CLASS-179-15BA	c 60	N77-12721 *
US-PATENT-CLASS-174-DIG.8	c 33	N74-22865 *	US-PATENT-CLASS-178-6.7R	c 35	N74-15831 *	US-PATENT-CLASS-179-15BA	c 32	N80-18252 *
US-PATENT-CLASS-174-106R	c 09	N72-22198 *	US-PATENT-CLASS-178-6.7	c 07	N72-17109 *	US-PATENT-CLASS-179-15BC	c 08	N72-25208 *
US-PATENT-CLASS-174-110.3	c 14	N71-27186 *	US-PATENT-CLASS-178-6.8	c 08	N72-22164 *	US-PATENT-CLASS-179-15BC	c 07	N73-16121 *
US-PATENT-CLASS-174-111	c 33	N74-27683 *	US-PATENT-CLASS-178-6.8	c 14	N72-25412 *	US-PATENT-CLASS-179-15BC	c 32	N74-30523 *
US-PATENT-CLASS-174-115	c 09	N70-38201 *	US-PATENT-CLASS-178-6.8	c 07	N73-30115 *	US-PATENT-CLASS-179-15BC	c 33	N75-26243 *
US-PATENT-CLASS-174-117FF	c 09	N72-22198 *	US-PATENT-CLASS-178-6.8	c 33	N75-30431 *	US-PATENT-CLASS-179-15BL	c 08	N72-22162 *
US-PATENT-CLASS-174-126CP	c 26	N73-32571 *	US-PATENT-CLASS-178-6.8	c 45	N76-17656 *	US-PATENT-CLASS-179-15BM	c 07	N73-26118 *
US-PATENT-CLASS-174-142	c 33	N80-18286 *	US-PATENT-CLASS-178-66R	c 32	N75-24981 *	US-PATENT-CLASS-179-15BS	c 10	N71-33407 *
US-PATENT-CLASS-174-145	c 33	N76-16332 *	US-PATENT-CLASS-178-66	c 09	N71-25866 *	US-PATENT-CLASS-179-15BS	c 07	N72-20140 *
US-PATENT-CLASS-174-148	c 33	N76-16332 *	US-PATENT-CLASS-178-66	c 08	N72-18184 *	US-PATENT-CLASS-179-15BS	c 07	N73-30115 *
US-PATENT-CLASS-174-15CA	c 31	N79-17029 *	US-PATENT-CLASS-178-67	c 08	N70-41961 *	US-PATENT-CLASS-179-15BS	c 32	N75-26195 *
US-PATENT-CLASS-174-15C	c 33	N74-27683 *	US-PATENT-CLASS-178-67	c 32	N74-26654 *	US-PATENT-CLASS-179-15BS	c 60	N77-19760 *
US-PATENT-CLASS-174-18	c 09	N69-21542 *	US-PATENT-CLASS-178-69.1	c 32	N78-15323 *	US-PATENT-CLASS-179-15BV	c 07	N72-25172 *
US-PATENT-CLASS-174-28	c 07	N71-27191 *	US-PATENT-CLASS-178-69.4R	c 32	N74-10132 *	US-PATENT-CLASS-179-15BY	c 32	N74-30524 *
US-PATENT-CLASS-174-28	c 33	N74-27683 *	US-PATENT-CLASS-178-69.5R	c 07	N72-20140 *	US-PATENT-CLASS-179-15FD	c 08	N72-25208 *
US-PATENT-CLASS-174-35	c 07	N71-19436 *	US-PATENT-CLASS-178-69.5R	c 32	N75-26195 *	US-PATENT-CLASS-179-15FS	c 07	N73-28012 *
US-PATENT-CLASS-174-36	c 09	N72-22198 *	US-PATENT-CLASS-178-69.5R	c 33	N76-14371 *	US-PATENT-CLASS-179-15	c 07	N69-39978 *
US-PATENT-CLASS-174-52-PE	c 33	N88-23941 *	US-PATENT-CLASS-178-69.5R	c 60	N77-19760 *	US-PATENT-CLASS-179-15	c 07	N71-20814 *
US-PATENT-CLASS-174-52-R	c 33	N88-23941 *	US-PATENT-CLASS-178-69.5	c 07	N71-11281 *	US-PATENT-CLASS-179-15	c 07	N71-24621 *
US-PATENT-CLASS-174-52-S	c 33	N88-23941 *	US-PATENT-CLASS-178-69.5	c 10	N71-19468 *	US-PATENT-CLASS-179-15	c 07	N71-24622 *
US-PATENT-CLASS-174-52S	c 15	N73-14469 *	US-PATENT-CLASS-178-69.5	c 10	N71-25865 *	US-PATENT-CLASS-179-15	c 08	N72-18184 *
US-PATENT-CLASS-174-68.5	c 15	N70-41960 *	US-PATENT-CLASS-178-69.5	c 10	N71-33407 *	US-PATENT-CLASS-179-175.1A	c 14	N73-27379 *
US-PATENT-CLASS-174-69	c 33	N74-22865 *	US-PATENT-CLASS-178-69.5	c 07	N72-25173 *	US-PATENT-CLASS-179-175.1A	c 33	N78-10375 *
US-PATENT-CLASS-174-70R	c 33	N74-22865 *	US-PATENT-CLASS-178-69.5	c 07	N73-13149 *	US-PATENT-CLASS-179-18BC	c 32	N86-27513 *
US-PATENT-CLASS-174-72	c 03	N69-21539 *	US-PATENT-CLASS-178-69.5	c 09	N73-28084 *	US-PATENT-CLASS-179-18GF	c 33	N82-29538 *
US-PATENT-CLASS-174-73R	c 33	N80-18286 *	US-PATENT-CLASS-178-69.5	c 17	N76-22245 *	US-PATENT-CLASS-179-1	c 07	N71-26181 *
US-PATENT-CLASS-174-84	c 15	N72-17455 *	US-PATENT-CLASS-178-69A	c 35	N75-21582 *	US-PATENT-CLASS-179-1	c 31	N71-33160 *
US-PATENT-CLASS-175-1	c 46	N79-22679 *	US-PATENT-CLASS-178-69C	c 32	N76-16249 *	US-PATENT-CLASS-179-27CA	c 32	N79-23310 *
US-PATENT-CLASS-175-26	c 15	N73-32362 *	US-PATENT-CLASS-178-6	c 07	N71-19433 *	US-PATENT-CLASS-179-78	c 33	N81-27397 *
US-PATENT-CLASS-175-310	c 15	N70-42034 *	US-PATENT-CLASS-178-6	c 09	N71-19449 *	US-PATENT-CLASS-179-84VF	c 32	N79-23310 *
US-PATENT-CLASS-175-323	c 14	N69-21923 *	US-PATENT-CLASS-178-6	c 07	N71-23026 *	US-PATENT-CLASS-179-91R	c 74	N78-14889 *
US-PATENT-CLASS-175-45	c 35	N84-33768 *	US-PATENT-CLASS-178-6	c 07	N71-26579 *	US-PATENT-CLASS-18-26	c 06	N71-22975 *
US-PATENT-CLASS-175-78	c 46	N80-10709 *	US-PATENT-CLASS-178-6	c 07	N72-12081 *	US-PATENT-CLASS-18-39	c 27	N70-34783 *
US-PATENT-CLASS-176-11	c 24	N72-33681 *	US-PATENT-CLASS-178-6	c 16	N72-13437 *	US-PATENT-CLASS-18-6	c 15	N71-26721 *
US-PATENT-CLASS-176-11	c 25	N76-27383 *	US-PATENT-CLASS-178-6	c 10	N73-13235 *	US-PATENT-CLASS-180-105E	c 11	N72-20244 *
US-PATENT-CLASS-176-11	c 25	N76-29379 *	US-PATENT-CLASS-178-6	c 36	N74-20009 *	US-PATENT-CLASS-180-118	c 31	N71-15689 *
US-PATENT-CLASS-176-11	c 25	N78-27226 *	US-PATENT-CLASS-178-7.1	c 07	N71-24612 *	US-PATENT-CLASS-180-121	c 31	N71-15689 *
US-PATENT-CLASS-176-14	c 25	N76-29379 *	US-PATENT-CLASS-178-7.1	c 07	N71-27341 *	US-PATENT-CLASS-180-125	c 15	N72-17451 *
US-PATENT-CLASS-176-169	c 22	N73-32528 *	US-PATENT-CLASS-178-7.1	c 09	N72-17156 *	US-PATENT-CLASS-180-127	c 15	N72-17451 *
US-PATENT-CLASS-176-16	c 25	N76-27383 *	US-PATENT-CLASS-178-7.1	c 32	N74-19790 *	US-PATENT-CLASS-180-168	c 35	N84-33769 *
US-PATENT-CLASS-176-16	c 25	N76-29379 *	US-PATENT-CLASS-178-7.1	c 36	N75-19652 *	US-PATENT-CLASS-180-19.2	c 85	N87-21755 *
US-PATENT-CLASS-176-16	c 25	N78-27226 *	US-PATENT-CLASS-178-7.2R	c 08	N72-22164 *	US-PATENT-CLASS-180-305	c 85	N87-21755 *
US-PATENT-CLASS-176-22	c 73	N78-28913 *	US-PATENT-CLASS-178-7.2	c 14	N70-41807 *	US-PATENT-CLASS-180-41	c 11	N73-26238 *
US-PATENT-CLASS-176-33	c 73	N78-28913 *	US-PATENT-CLASS-178-7.2	c 71	N74-21014 *	US-PATENT-CLASS-180-6.5	c 11	N73-26238 *
US-PATENT-CLASS-176-39	c 73	N78-19920 *	US-PATENT-CLASS-178-7.2	c 35	N75-25123 *	US-PATENT-CLASS-180-7R	c 11	N73-26238 *
US-PATENT-CLASS-176-39	c 73	N78-28913 *	US-PATENT-CLASS-178-7.3	c 07	N71-27341 *	US-PATENT-CLASS-180-79.3	c 37	N74-18125 *
US-PATENT-CLASS-176-3	c 75	N75-13625 *	US-PATENT-CLASS-178-7.3	c 07	N72-12081 *	US-PATENT-CLASS-180-8.6	c 18	N88-23828 *
US-PATENT-CLASS-176-45	c 22	N71-28759 *	US-PATENT-CLASS-178-7.5E	c 10	N72-31273 *	US-PATENT-CLASS-180-8A	c 11	N73-26238 *
US-PATENT-CLASS-176-86G	c 22	N72-20597 *	US-PATENT-CLASS-178-7.6	c 36	N74-20009 *	US-PATENT-CLASS-180-9.2R	c 11	N73-26238 *
US-PATENT-CLASS-177-147	c 35	N85-20294 *	US-PATENT-CLASS-178-7.7	c 09	N71-12539 *	US-PATENT-CLASS-180-9.5	c 11	N73-26238 *
US-PATENT-CLASS-177-1	c 35	N77-19385 *	US-PATENT-CLASS-178-7.7	c 32	N74-20813 *	US-PATENT-CLASS-181.5R	c 71	N74-31148 *

US-PATENT-CLASS-181-5	c 11	N71-28779 *	US-PATENT-CLASS-188-82.9	c 37	N92-21728 *	US-PATENT-CLASS-200-129	c 33	N75-27249 *
US-PATENT-CLASS-181-0.5	c 71	N85-30765 *	US-PATENT-CLASS-188-87	c 12	N71-16894 *	US-PATENT-CLASS-200-152	c 09	N71-19610 *
US-PATENT-CLASS-181-0.5	c 71	N88-24241 *	US-PATENT-CLASS-188-88	c 15	N71-26611 *	US-PATENT-CLASS-200-153S	c 33	N80-18285 *
US-PATENT-CLASS-181-0.5	c 31	N90-21215 *	US-PATENT-CLASS-189-36	c 15	N70-36947 *	US-PATENT-CLASS-200-157	c 08	N86-27288 *
US-PATENT-CLASS-181-0.5	c 71	N91-14808 *	US-PATENT-CLASS-19-205	c 37	N76-18456 *	US-PATENT-CLASS-200-19	c 09	N70-39915 *
US-PATENT-CLASS-181-102	c 39	N80-10507 *	US-PATENT-CLASS-191-12.2-R	c 33	N86-20669 *	US-PATENT-CLASS-200-304	c 33	N80-18285 *
US-PATENT-CLASS-181-102	c 31	N80-32584 *	US-PATENT-CLASS-192-43.1	c 15	N71-17805 *	US-PATENT-CLASS-200-39	c 03	N70-38713 *
US-PATENT-CLASS-181-105	c 39	N80-10507 *	US-PATENT-CLASS-192-46	c 37	N87-17037 *	US-PATENT-CLASS-200-46	c 74	N79-12890 *
US-PATENT-CLASS-181-106	c 46	N79-22679 *	US-PATENT-CLASS-192-67R	c 37	N87-17037 *	US-PATENT-CLASS-200-61.05	c 25	N86-27431 *
US-PATENT-CLASS-181-115	c 46	N79-23555 *	US-PATENT-CLASS-194-82.26	c 37	N90-21390 *	US-PATENT-CLASS-200-61.42	c 09	N71-12518 *
US-PATENT-CLASS-181-117	c 46	N79-22679 *	US-PATENT-CLASS-194-82.29	c 37	N90-21390 *	US-PATENT-CLASS-200-61.45	c 14	N70-41812 *
US-PATENT-CLASS-181-120	c 46	N79-23555 *	US-PATENT-CLASS-194-902	c 37	N89-13785 *	US-PATENT-CLASS-200-61	c 74	N79-12890 *
US-PATENT-CLASS-181-121	c 35	N84-22933 *	US-PATENT-CLASS-195-1.8	c 51	N77-25769 *	US-PATENT-CLASS-200-64	c 15	N72-17455 *
US-PATENT-CLASS-181-148	c 71	N79-23753 *	US-PATENT-CLASS-195-1.8	c 51	N79-10694 *	US-PATENT-CLASS-200-6	c 10	N71-15909 *
US-PATENT-CLASS-181-190	c 71	N79-14871 *	US-PATENT-CLASS-195-1.8	c 52	N79-14749 *	US-PATENT-CLASS-200-6	c 09	N71-16089 *
US-PATENT-CLASS-181-206	c 71	N91-27913 *	US-PATENT-CLASS-195-103.5K	c 51	N77-22794 *	US-PATENT-CLASS-200-81.9M	c 09	N72-20199 *
US-PATENT-CLASS-181-213	c 71	N79-14871 *	US-PATENT-CLASS-195-103.5K	c 52	N79-14750 *	US-PATENT-CLASS-200-81R	c 09	N72-22204 *
US-PATENT-CLASS-181-213	c 07	N83-33884 *	US-PATENT-CLASS-195-103.5L	c 52	N79-14750 *	US-PATENT-CLASS-200-82C	c 09	N72-22204 *
US-PATENT-CLASS-181-214	c 07	N81-14999 *	US-PATENT-CLASS-195-103.5R	c 06	N72-25149 *	US-PATENT-CLASS-200-82	c 10	N71-23663 *
US-PATENT-CLASS-181-214	c 71	N82-16800 *	US-PATENT-CLASS-195-103.5R	c 25	N75-12086 *	US-PATENT-CLASS-200-83N	c 35	N75-15931 *
US-PATENT-CLASS-181-222	c 71	N79-14871 *	US-PATENT-CLASS-195-103.5R	c 35	N75-27330 *	US-PATENT-CLASS-200-83	c 33	N79-33392 *
US-PATENT-CLASS-181-286	c 24	N90-21822 *	US-PATENT-CLASS-195-103.5R	c 35	N75-33368 *	US-PATENT-CLASS-201-10	c 27	N81-17261 *
US-PATENT-CLASS-181-286	c 71	N91-27913 *	US-PATENT-CLASS-195-103.5R	c 51	N76-29891 *	US-PATENT-CLASS-201-17	c 44	N78-31527 *
US-PATENT-CLASS-181-290	c 24	N90-21822 *	US-PATENT-CLASS-195-103.5R	c 51	N77-22794 *	US-PATENT-CLASS-201-17	c 25	N81-33246 *
US-PATENT-CLASS-181-290	c 71	N91-27913 *	US-PATENT-CLASS-195-103.5R	c 25	N79-22235 *	US-PATENT-CLASS-201-17	c 25	N82-29371 *
US-PATENT-CLASS-181-293	c 71	N79-14871 *	US-PATENT-CLASS-195-120	c 51	N75-13502 *	US-PATENT-CLASS-201-17	c 25	N83-31743 *
US-PATENT-CLASS-181-295	c 71	N91-27913 *	US-PATENT-CLASS-195-120	c 35	N75-27330 *	US-PATENT-CLASS-201-17	c 25	N85-35253 *
US-PATENT-CLASS-181-33C	c 07	N74-32418 *	US-PATENT-CLASS-195-127	c 15	N72-21465 *	US-PATENT-CLASS-201-25	c 27	N81-17261 *
US-PATENT-CLASS-181-33F	c 07	N74-32418 *	US-PATENT-CLASS-195-127	c 11	N72-25284 *	US-PATENT-CLASS-201-8	c 27	N81-17261 *
US-PATENT-CLASS-181-33HB	c 07	N74-27490 *	US-PATENT-CLASS-195-127	c 14	N72-25413 *	US-PATENT-CLASS-202-118	c 31	N81-15154 *
US-PATENT-CLASS-181-33HC	c 07	N74-33218 *	US-PATENT-CLASS-195-127	c 15	N73-20514 *	US-PATENT-CLASS-202-182	c 05	N71-11207 *
US-PATENT-CLASS-181-33HC	c 07	N76-18117 *	US-PATENT-CLASS-195-127	c 05	N73-32011 *	US-PATENT-CLASS-202-234	c 15	N71-23086 *
US-PATENT-CLASS-181-33H	c 07	N74-32418 *	US-PATENT-CLASS-195-127	c 35	N75-12272 *	US-PATENT-CLASS-203-12	c 25	N82-28368 *
US-PATENT-CLASS-181-33L	c 07	N74-32418 *	US-PATENT-CLASS-195-127	c 51	N75-13502 *	US-PATENT-CLASS-203-90	c 25	N88-23846 *
US-PATENT-CLASS-181-42	c 07	N74-32418 *	US-PATENT-CLASS-195-127	c 35	N75-27330 *	US-PATENT-CLASS-203-91	c 25	N88-23846 *
US-PATENT-CLASS-181-43	c 07	N74-15453 *	US-PATENT-CLASS-195-127	c 25	N79-22235 *	US-PATENT-CLASS-203-98	c 25	N88-23846 *
US-PATENT-CLASS-181-52	c 28	N70-41582 *	US-PATENT-CLASS-195-127	c 25	N79-24073 *	US-PATENT-CLASS-204-DIG.11	c 25	N77-32255 *
US-PATENT-CLASS-182-103	c 18	N89-12621 *	US-PATENT-CLASS-195-141	c 35	N75-27330 *	US-PATENT-CLASS-204-DIG.3	c 25	N84-12292 *
US-PATENT-CLASS-182-10	c 15	N71-27067 *	US-PATENT-CLASS-195-28N	c 06	N72-25149 *	US-PATENT-CLASS-204-DIG.3	c 44	N84-23019 *
US-PATENT-CLASS-182-129	c 54	N92-16559 *	US-PATENT-CLASS-195-66R	c 06	N73-27086 *	US-PATENT-CLASS-204-1T	c 25	N79-22235 *
US-PATENT-CLASS-182-134	c 54	N92-16559 *	US-PATENT-CLASS-195-68	c 04	N69-27487 *	US-PATENT-CLASS-204-1T	c 51	N81-28698 *
US-PATENT-CLASS-182-141	c 54	N92-16559 *	US-PATENT-CLASS-195-99	c 06	N71-17705 *	US-PATENT-CLASS-204-1T	c 25	N82-12166 *
US-PATENT-CLASS-182-152	c 31	N87-25492 *	US-PATENT-CLASS-197-188	c 37	N77-19457 *	US-PATENT-CLASS-204-1T	c 76	N84-35112 *
US-PATENT-CLASS-182-178	c 39	N76-31562 *	US-PATENT-CLASS-197-190	c 37	N77-19457 *	US-PATENT-CLASS-204-1T	c 35	N85-29212 *
US-PATENT-CLASS-182-191	c 05	N71-11199 *	US-PATENT-CLASS-198-847	c 37	N80-32717 *	US-PATENT-CLASS-204-1T	c 76	N85-30923 *
US-PATENT-CLASS-182-223	c 54	N87-29118 *	US-PATENT-CLASS-198-848	c 37	N80-32717 *	US-PATENT-CLASS-204-129.55	c 31	N83-19947 *
US-PATENT-CLASS-182-2	c 54	N92-16559 *	US-PATENT-CLASS-1	c 14	N71-27005 *	US-PATENT-CLASS-204-129.75	c 31	N83-19947 *
US-PATENT-CLASS-182-5	c 15	N73-25512 *	US-PATENT-CLASS-2-115	c 05	N72-25119 *	US-PATENT-CLASS-204-129	c 28	N81-24280 *
US-PATENT-CLASS-182-62.5	c 31	N81-27324 *	US-PATENT-CLASS-2-14	c 05	N71-23096 *	US-PATENT-CLASS-204-129	c 25	N84-12262 *
US-PATENT-CLASS-182-63	c 54	N87-29118 *	US-PATENT-CLASS-2-161R	c 54	N84-23113 *	US-PATENT-CLASS-204-129	c 44	N84-23019 *
US-PATENT-CLASS-182-63	c 54	N92-16559 *	US-PATENT-CLASS-2-161R	c 54	N84-28484 *	US-PATENT-CLASS-204-129	c 25	N82-28756 *
US-PATENT-CLASS-182-82	c 54	N87-29118 *	US-PATENT-CLASS-2-161	c 54	N78-17677 *	US-PATENT-CLASS-204-130	c 15	N72-21466 *
US-PATENT-CLASS-184-1	c 15	N71-23048 *	US-PATENT-CLASS-2-164	c 54	N84-28484 *	US-PATENT-CLASS-204-157.1H	c 25	N74-30502 *
US-PATENT-CLASS-185-38	c 37	N78-16369 *	US-PATENT-CLASS-2-167	c 54	N84-23113 *	US-PATENT-CLASS-204-157.1H	c 37	N76-18458 *
US-PATENT-CLASS-187-1	c 15	N72-25453 *	US-PATENT-CLASS-2-167	c 54	N84-28484 *	US-PATENT-CLASS-204-157.1R	c 25	N77-32255 *
US-PATENT-CLASS-187-20	c 15	N72-25453 *	US-PATENT-CLASS-2-2.1A	c 05	N72-20992 *	US-PATENT-CLASS-204-157.1R	c 44	N77-32580 *
US-PATENT-CLASS-187-7.1	c 07	N71-24742 *	US-PATENT-CLASS-2-2.1A	c 05	N73-25125 *	US-PATENT-CLASS-204-157.1R	c 44	N79-11470 *
US-PATENT-CLASS-187-95	c 15	N72-25453 *	US-PATENT-CLASS-2-2.1A	c 05	N73-32012 *	US-PATENT-CLASS-204-157.18AG	c 15	N72-25452 *
US-PATENT-CLASS-188-1B	c 15	N72-20443 *	US-PATENT-CLASS-2-2.1A	c 54	N74-32546 *	US-PATENT-CLASS-204-157.22	c 25	N88-24732 *
US-PATENT-CLASS-188-1B	c 19	N76-22284 *	US-PATENT-CLASS-2-2.1A	c 54	N77-32721 *	US-PATENT-CLASS-204-157.51	c 25	N90-20154 *
US-PATENT-CLASS-188-1C	c 15	N72-17450 *	US-PATENT-CLASS-2-2.1A	c 54	N78-17675 *	US-PATENT-CLASS-204-158R	c 25	N77-32255 *
US-PATENT-CLASS-188-1C	c 15	N72-20443 *	US-PATENT-CLASS-2-2.1A	c 54	N78-31735 *	US-PATENT-CLASS-204-159.11	c 27	N80-32516 *
US-PATENT-CLASS-188-1C	c 15	N73-30460 *	US-PATENT-CLASS-2-2.1A	c 54	N78-31736 *	US-PATENT-CLASS-204-159.14	c 27	N80-32516 *
US-PATENT-CLASS-188-1C	c 11	N73-32152 *	US-PATENT-CLASS-2-2.1A	c 54	N79-24651 *	US-PATENT-CLASS-204-159.15	c 27	N80-26446 *
US-PATENT-CLASS-188-1C	c 37	N79-10420 *	US-PATENT-CLASS-2-2.1A	c 54	N86-28618 *	US-PATENT-CLASS-204-159.19	c 27	N80-26446 *
US-PATENT-CLASS-188-103	c 15	N71-27146 *	US-PATENT-CLASS-2-2.1A	c 54	N86-28619 *	US-PATENT-CLASS-204-162R	c 25	N77-32255 *
US-PATENT-CLASS-188-129	c 15	N72-17450 *	US-PATENT-CLASS-2-2.1A	c 54	N86-28620 *	US-PATENT-CLASS-204-164	c 26	N78-32229 *
US-PATENT-CLASS-188-134	c 37	N81-15364 *	US-PATENT-CLASS-2-2.1A	c 54	N86-29507 *	US-PATENT-CLASS-204-168	c 24	N71-25555 *
US-PATENT-CLASS-188-151A	c 44	N79-14527 *	US-PATENT-CLASS-2-2.1A	c 18	N90-16860 *	US-PATENT-CLASS-204-16	c 24	N77-19171 *
US-PATENT-CLASS-188-163	c 37	N74-26976 *	US-PATENT-CLASS-2-2.1A	c 27	N92-10091 *	US-PATENT-CLASS-204-171	c 27	N80-32516 *
US-PATENT-CLASS-188-171	c 37	N74-26976 *	US-PATENT-CLASS-2-2.1R	c 54	N86-28618 *	US-PATENT-CLASS-204-175	c 26	N78-32229 *
US-PATENT-CLASS-188-171	c 37	N92-21728 *	US-PATENT-CLASS-2-2.1R	c 54	N86-28619 *	US-PATENT-CLASS-204-177	c 25	N75-12087 *
US-PATENT-CLASS-188-180	c 37	N81-15364 *	US-PATENT-CLASS-2-2.1	c 05	N71-11194 *	US-PATENT-CLASS-204-180.1	c 25	N88-23845 *
US-PATENT-CLASS-188-184	c 37	N81-15364 *	US-PATENT-CLASS-2-2.1	c 05	N71-11195 *	US-PATENT-CLASS-204-180.1	c 25	N92-28728 *
US-PATENT-CLASS-188-1	c 15	N70-34861 *	US-PATENT-CLASS-2-2.1	c 05	N71-12335 *	US-PATENT-CLASS-204-180G	c 25	N78-14104 *
US-PATENT-CLASS-188-1	c 15	N70-38601 *	US-PATENT-CLASS-2-2.1	c 05	N71-12335 *	US-PATENT-CLASS-204-180G	c 25	N79-14169 *
US-PATENT-CLASS-188-1	c 15	N70-40354 *	US-PATENT-CLASS-2-2.1	c 05	N71-23161 *	US-PATENT-CLASS-204-180G	c 37	N80-14397 *
US-PATENT-CLASS-188-1	c 14	N71-17626 *	US-PATENT-CLASS-2-2.1	c 05	N71-24623 *	US-PATENT-CLASS-204-180P	c 54	N78-14784 *
US-PATENT-CLASS-188-1	c 15	N71-22877 *	US-PATENT-CLASS-2-2.1	c 05	N71-24730 *	US-PATENT-CLASS-204-180R	c 25	N74-26948 *
US-PATENT-CLASS-188-1	c 14	N71-23092 *	US-PATENT-CLASS-2-2.1	c 05	N72-20096 *	US-PATENT-CLASS-204-180R	c 34	N74-27744 *
US-PATENT-CLASS-188-1	c 15	N71-26243 *	US-PATENT-CLASS-2-2.1	c 05	N72-20098 *	US-PATENT-CLASS-204-180R	c 51	N80-16715 *
US-PATENT-CLASS-188-1	c 15	N71-27146 *	US-PATENT-CLASS-2-2.1	c 05	N72-25119 *	US-PATENT-CLASS-204-180S	c 25	N79-10163 *
US-PATENT-CLASS-188-1	c 15	N71-27169 *	US-PATENT-CLASS-2-2.1	c 05	N73-26071 *	US-PATENT-CLASS-204-180S	c 25	N79-14169 *
US-PATENT-CLASS-188-218-XL	c 37	N88-29181 *	US-PATENT-CLASS-2-2.1	c 34	N78-17337 *	US-PATENT-CLASS-204-183.3	c 25	N92-28728 *
US-PATENT-CLASS-188-24.11	c 37	N91-32514 *	US-PATENT-CLASS-2-2.1	c 54	N78-17678 *	US-PATENT-CLASS-204-192.15	c 26	N87-25455 *
US-PATENT-CLASS-188-251-A	c 37	N88-29181 *	US-PATENT-CLASS-2-2.1	c 54	N78-18761 *	US-PATENT-CLASS-204-192.15	c 76	N88-24543 *
US-PATENT-CLASS-188-266	c 15	N73-25513 *	US-PATENT-CLASS-2-201	c 54	N89-29953 *	US-PATENT-CLASS-204-192.23	c 26	N87-25455 *
US-PATENT-CLASS-188-268	c 15	N72-20443 *	US-PATENT-CLASS-2-275	c 18	N71-26285 *	US-PATENT-CLASS-204-192.24	c 76	N88-24543 *
US-PATENT-CLASS-188-269	c 44	N79-14527 *	US-PATENT-CLASS-2-411	c 27	N92-10091 *	US-PATENT-CLASS-204-192.31	c 26	N88-14179 *
US-PATENT-CLASS-188-291	c 54	N77-21844 *	US-PATENT-CLASS-2-424	c 27	N92-10091 *	US-PATENT-CLASS-204-192.32	c 25	N81-31258 *
US-PATENT-CLASS-188-371	c 37	N82-18601 *	US-PATENT-CLASS-2-6	c 05	N71-26333 *	US-PATENT-CLASS-204-192-C	c 27	N86-19458 *
US-PATENT-CLASS-188-373	c 37	N88-23982 *	US-PATENT-CLASS-2-6	c 54	N78-17680 *	US-PATENT-CLASS-204-192-D	c 27	N86-19458 *
US-PATENT-CLASS-188-378	c 37	N92-34173 *	US-PATENT-CLASS-2-81	c 18	N71-26285 *	US-PATENT-CLASS-204-192-R	c 27	N86-19458 *
US-PATENT-CLASS-188-65.1	c 15	N73-25512 *	US-PATENT-CLASS-2-81	c 05	N73-32012 *	US-PATENT-CLASS-204-192C	c 76	N79-14906 *
US-PATENT-CLASS-188-65.5	c 15	N71-27067 *	US-PATENT-CLASS-2-82	c 54	N74-32546 *	US-PATENT-CLASS-204-192C	c 26	N82-29415 *
US-PATENT-CLASS-188-82.84	c 37	N92-21728 *	US-PATENT-CLASS-200-114	c 33	N79-33393 *	US-PATENT-CLASS-204-192C	c 26	N82-30371 *

US-PATENT-CLASS-204-192C	c 24	N84-22695 *	US-PATENT-CLASS-204-32	c 44	N79-11469 *	US-PATENT-CLASS-210-340	c 37	N80-10494 *
US-PATENT-CLASS-204-192C	c 31	N85-20153 *	US-PATENT-CLASS-204-33	c 17	N71-25903 *	US-PATENT-CLASS-210-340	c 29	N90-21209 *
US-PATENT-CLASS-204-192C	c 24	N85-21267 *	US-PATENT-CLASS-204-33	c 44	N76-14595 *	US-PATENT-CLASS-210-355	c 51	N91-14703 *
US-PATENT-CLASS-204-192C	c 76	N85-33826 *	US-PATENT-CLASS-204-33	c 44	N79-11469 *	US-PATENT-CLASS-210-396	c 51	N91-21701 *
US-PATENT-CLASS-204-192C	c 27	N86-32569 *	US-PATENT-CLASS-204-33	c 44	N83-34449 *	US-PATENT-CLASS-210-40	c 27	N77-31308 *
US-PATENT-CLASS-204-192C	c 31	N86-32587 *	US-PATENT-CLASS-204-35N	c 27	N83-29388 *	US-PATENT-CLASS-210-40	c 85	N79-17747 *
US-PATENT-CLASS-204-192D	c 27	N86-32569 *	US-PATENT-CLASS-204-35N	c 44	N83-34449 *	US-PATENT-CLASS-210-40	c 45	N82-11634 *
US-PATENT-CLASS-204-192D	c 31	N86-32587 *	US-PATENT-CLASS-204-37.6	c 76	N84-35112 *	US-PATENT-CLASS-210-411	c 34	N75-33342 *
US-PATENT-CLASS-204-192EC	c 27	N82-28440 *	US-PATENT-CLASS-204-37R	c 44	N79-11469 *	US-PATENT-CLASS-210-414	c 51	N91-14703 *
US-PATENT-CLASS-204-192EC	c 27	N82-33521 *	US-PATENT-CLASS-204-38	c 27	N83-29388 *	US-PATENT-CLASS-210-425	c 34	N75-33342 *
US-PATENT-CLASS-204-192EC	c 33	N84-22884 *	US-PATENT-CLASS-204-37	c 33	N71-29151 *	US-PATENT-CLASS-210-429	c 37	N76-14463 *
US-PATENT-CLASS-204-192E	c 37	N81-19455 *	US-PATENT-CLASS-204-38A	c 44	N76-14595 *	US-PATENT-CLASS-210-433M	c 51	N79-10693 *
US-PATENT-CLASS-204-192E	c 27	N82-28440 *	US-PATENT-CLASS-204-38B	c 44	N79-11469 *	US-PATENT-CLASS-210-445	c 15	N72-11389 *
US-PATENT-CLASS-204-192E	c 27	N82-33521 *	US-PATENT-CLASS-204-38B	c 27	N82-33521 *	US-PATENT-CLASS-210-45	c 85	N79-17747 *
US-PATENT-CLASS-204-192E	c 24	N83-10117 *	US-PATENT-CLASS-204-38	c 17	N71-24830 *	US-PATENT-CLASS-210-500.25	c 31	N88-29052 *
US-PATENT-CLASS-204-192E	c 52	N84-23095 *	US-PATENT-CLASS-204-40	c 44	N76-14595 *	US-PATENT-CLASS-210-500.35	c 31	N88-29052 *
US-PATENT-CLASS-204-192N	c 24	N85-21267 *	US-PATENT-CLASS-204-40	c 24	N77-19171 *	US-PATENT-CLASS-210-500M	c 27	N80-23452 *
US-PATENT-CLASS-204-192N	c 26	N85-29005 *	US-PATENT-CLASS-204-42	c 44	N76-14595 *	US-PATENT-CLASS-210-500M	c 25	N81-17187 *
US-PATENT-CLASS-204-192P	c 76	N85-33826 *	US-PATENT-CLASS-204-430	c 35	N85-29212 *	US-PATENT-CLASS-210-500	c 25	N75-12087 *
US-PATENT-CLASS-204-192R	c 24	N84-22695 *	US-PATENT-CLASS-204-49	c 15	N72-25452 *	US-PATENT-CLASS-210-502.1	c 25	N92-33009 *
US-PATENT-CLASS-204-192R	c 31	N85-20153 *	US-PATENT-CLASS-204-49	c 44	N76-14595 *	US-PATENT-CLASS-210-50	c 45	N79-12584 *
US-PATENT-CLASS-204-192R	c 24	N85-21267 *	US-PATENT-CLASS-204-56R	c 44	N83-10494 *	US-PATENT-CLASS-210-512.1	c 35	N90-22024 *
US-PATENT-CLASS-204-192SP	c 24	N84-22695 *	US-PATENT-CLASS-204-56R	c 27	N83-29388 *	US-PATENT-CLASS-210-512	c 34	N75-33342 *
US-PATENT-CLASS-204-192SP	c 31	N85-20153 *	US-PATENT-CLASS-204-56R	c 76	N84-35112 *	US-PATENT-CLASS-210-514	c 85	N79-17747 *
US-PATENT-CLASS-204-192	c 15	N73-12487 *	US-PATENT-CLASS-204-59	c 15	N72-21466 *	US-PATENT-CLASS-210-57	c 45	N80-14579 *
US-PATENT-CLASS-204-192	c 17	N73-24569 *	US-PATENT-CLASS-204-9	c 20	N74-32919 *	US-PATENT-CLASS-210-602	c 45	N84-12654 *
US-PATENT-CLASS-204-192	c 27	N74-13270 *	US-PATENT-CLASS-204-9	c 24	N77-19171 *	US-PATENT-CLASS-210-605	c 45	N84-12654 *
US-PATENT-CLASS-204-192	c 20	N74-31269 *	US-PATENT-CLASS-204-195B	c 27	N86-19458 *	US-PATENT-CLASS-210-60	c 45	N79-12584 *
US-PATENT-CLASS-204-192	c 37	N75-19684 *	US-PATENT-CLASS-205-343	c 25	N79-22235 *	US-PATENT-CLASS-210-615	c 45	N91-14662 *
US-PATENT-CLASS-204-192	c 44	N77-14580 *	US-PATENT-CLASS-205-343	c 35	N75-30502 *	US-PATENT-CLASS-210-617	c 45	N84-12654 *
US-PATENT-CLASS-204-195B	c 25	N79-24073 *	US-PATENT-CLASS-206-0.7	c 31	N89-29578 *	US-PATENT-CLASS-210-63R	c 25	N78-10225 *
US-PATENT-CLASS-204-195B	c 51	N80-27067 *	US-PATENT-CLASS-206-364	c 31	N92-33612 *	US-PATENT-CLASS-210-63R	c 45	N79-12584 *
US-PATENT-CLASS-204-195B	c 51	N81-28698 *	US-PATENT-CLASS-206-366	c 31	N92-33612 *	US-PATENT-CLASS-210-632	c 45	N80-14579 *
US-PATENT-CLASS-204-195B	c 35	N82-28604 *	US-PATENT-CLASS-206-370	c 31	N92-33612 *	US-PATENT-CLASS-210-635	c 25	N92-33009 *
US-PATENT-CLASS-204-195R	c 33	N76-19339 *	US-PATENT-CLASS-206-439	c 52	N79-14749 *	US-PATENT-CLASS-210-639	c 31	N88-29052 *
US-PATENT-CLASS-204-195S	c 25	N82-12166 *	US-PATENT-CLASS-206-447	c 27	N84-14323 *	US-PATENT-CLASS-210-653	c 31	N88-29052 *
US-PATENT-CLASS-204-195W	c 35	N78-25391 *	US-PATENT-CLASS-206-582	c 27	N84-14323 *	US-PATENT-CLASS-210-66	c 85	N79-17747 *
US-PATENT-CLASS-204-195	c 14	N71-17575 *	US-PATENT-CLASS-206-818	c 31	N92-33612 *	US-PATENT-CLASS-210-670	c 25	N92-33029 *
US-PATENT-CLASS-204-2.1	c 44	N81-29524 *	US-PATENT-CLASS-208-10	c 25	N79-11152 *	US-PATENT-CLASS-210-67	c 85	N79-17747 *
US-PATENT-CLASS-204-20	c 18	N71-16210 *	US-PATENT-CLASS-208-10	c 23	N84-16255 *	US-PATENT-CLASS-210-695	c 25	N92-33611 *
US-PATENT-CLASS-204-222	c 31	N74-23065 *	US-PATENT-CLASS-208-10	c 25	N84-22709 *	US-PATENT-CLASS-210-70	c 85	N79-17747 *
US-PATENT-CLASS-204-224	c 37	N80-14395 *	US-PATENT-CLASS-208-11	c 25	N86-25428 *	US-PATENT-CLASS-210-71	c 25	N78-10225 *
US-PATENT-CLASS-204-242	c 33	N75-27252 *	US-PATENT-CLASS-208-241	c 25	N82-23282 *	US-PATENT-CLASS-210-73R	c 85	N79-17747 *
US-PATENT-CLASS-204-242	c 25	N84-12262 *	US-PATENT-CLASS-208-8LE	c 23	N84-16255 *	US-PATENT-CLASS-210-748	c 71	N83-35781 *
US-PATENT-CLASS-204-252	c 28	N81-24280 *	US-PATENT-CLASS-208-8LE	c 25	N84-22709 *	US-PATENT-CLASS-210-748	c 35	N84-17555 *
US-PATENT-CLASS-204-263	c 14	N71-28933 *	US-PATENT-CLASS-208-8	c 25	N79-11152 *	US-PATENT-CLASS-210-748	c 54	N91-31803 *
US-PATENT-CLASS-204-263	c 25	N82-12166 *	US-PATENT-CLASS-209-10	c 15	N71-20440 *	US-PATENT-CLASS-210-748	c 25	N92-33029 *
US-PATENT-CLASS-204-264	c 25	N82-12166 *	US-PATENT-CLASS-209-127R	c 35	N76-22509 *	US-PATENT-CLASS-210-748	c 25	N92-33611 *
US-PATENT-CLASS-204-266	c 28	N81-24280 *	US-PATENT-CLASS-209-250	c 37	N76-18456 *	US-PATENT-CLASS-210-758	c 25	N92-33029 *
US-PATENT-CLASS-204-266	c 25	N82-12166 *	US-PATENT-CLASS-209-300	c 37	N76-18456 *	US-PATENT-CLASS-210-767	c 25	N92-33611 *
US-PATENT-CLASS-204-267	c 33	N75-27252 *	US-PATENT-CLASS-209-305	c 37	N76-18456 *	US-PATENT-CLASS-210-82	c 34	N75-33342 *
US-PATENT-CLASS-204-275	c 25	N82-12166 *	US-PATENT-CLASS-209-349	c 15	N72-22483 *	US-PATENT-CLASS-210-94	c 29	N90-21209 *
US-PATENT-CLASS-204-276	c 25	N82-12166 *	US-PATENT-CLASS-209-422	c 71	N85-30765 *	US-PATENT-CLASS-210-95	c 29	N90-21209 *
US-PATENT-CLASS-204-278	c 25	N82-12166 *	US-PATENT-CLASS-209-638	c 71	N85-30765 *	US-PATENT-CLASS-210-96M	c 54	N78-14784 *
US-PATENT-CLASS-204-278	c 25	N84-12262 *	US-PATENT-CLASS-21-207	c 17	N71-16393 *	US-PATENT-CLASS-210-96M	c 51	N79-10693 *
US-PATENT-CLASS-204-278	c 44	N84-23019 *	US-PATENT-CLASS-210-DIG.23	c 52	N79-14749 *	US-PATENT-CLASS-210-97	c 35	N90-22024 *
US-PATENT-CLASS-204-279	c 33	N75-27252 *	US-PATENT-CLASS-210-DIG.27	c 27	N77-31308 *	US-PATENT-CLASS-211-126	c 35	N86-20751 *
US-PATENT-CLASS-204-280R	c 25	N83-13187 *	US-PATENT-CLASS-210-103	c 05	N72-27102 *	US-PATENT-CLASS-211-74	c 35	N86-20751 *
US-PATENT-CLASS-204-280	c 44	N84-23019 *	US-PATENT-CLASS-210-104	c 05	N72-27102 *	US-PATENT-CLASS-212-11	c 32	N71-17609 *
US-PATENT-CLASS-204-286	c 33	N75-27252 *	US-PATENT-CLASS-210-108	c 34	N79-24285 *	US-PATENT-CLASS-212-134	c 15	N72-11388 *
US-PATENT-CLASS-204-290F	c 28	N81-24280 *	US-PATENT-CLASS-210-110	c 05	N72-27102 *	US-PATENT-CLASS-212-225	c 18	N89-12621 *
US-PATENT-CLASS-204-290F	c 44	N82-29710 *	US-PATENT-CLASS-210-137	c 05	N72-27102 *	US-PATENT-CLASS-212-230	c 37	N86-20789 *
US-PATENT-CLASS-204-290R	c 33	N75-27252 *	US-PATENT-CLASS-210-142	c 34	N79-24285 *	US-PATENT-CLASS-212-257	c 18	N89-12621 *
US-PATENT-CLASS-204-290R	c 28	N81-24280 *	US-PATENT-CLASS-210-151	c 45	N84-12654 *	US-PATENT-CLASS-212-267	c 31	N81-27324 *
US-PATENT-CLASS-204-290R	c 44	N82-29710 *	US-PATENT-CLASS-210-186	c 37	N80-10494 *	US-PATENT-CLASS-213-81	c 37	N77-23483 *
US-PATENT-CLASS-204-290R	c 25	N84-12262 *	US-PATENT-CLASS-210-188	c 12	N72-25292 *	US-PATENT-CLASS-214-1CM	c 37	N76-15460 *
US-PATENT-CLASS-204-290	c 44	N84-28205 *	US-PATENT-CLASS-210-192	c 54	N78-14784 *	US-PATENT-CLASS-214-1BC	c 54	N77-32721 *
US-PATENT-CLASS-204-291	c 28	N81-24280 *	US-PATENT-CLASS-210-198.2	c 25	N92-33009 *	US-PATENT-CLASS-214-1B	c 54	N77-2758 *
US-PATENT-CLASS-204-292	c 25	N78-10225 *	US-PATENT-CLASS-210-205	c 29	N90-21209 *	US-PATENT-CLASS-214-1CM	c 15	N72-28495 *
US-PATENT-CLASS-204-298	c 15	N70-34967 *	US-PATENT-CLASS-210-209	c 25	N92-33029 *	US-PATENT-CLASS-214-1CM	c 54	N75-12616 *
US-PATENT-CLASS-204-298	c 09	N71-26701 *	US-PATENT-CLASS-210-212	c 03	N72-20033 *	US-PATENT-CLASS-214-1CM	c 18	N75-27041 *
US-PATENT-CLASS-204-298	c 15	N72-32487 *	US-PATENT-CLASS-210-222	c 35	N78-12390 *	US-PATENT-CLASS-214-1CM	c 54	N75-27758 *
US-PATENT-CLASS-204-298	c 37	N75-19684 *	US-PATENT-CLASS-210-222	c 25	N92-33611 *	US-PATENT-CLASS-214-1CM	c 37	N77-23483 *
US-PATENT-CLASS-204-298	c 27	N86-32569 *	US-PATENT-CLASS-210-223	c 25	N92-33611 *	US-PATENT-CLASS-214-1CM	c 54	N77-32721 *
US-PATENT-CLASS-204-298	c 31	N86-32587 *	US-PATENT-CLASS-210-22	c 52	N80-14687 *	US-PATENT-CLASS-214-1CM	c 54	N78-17676 *
US-PATENT-CLASS-204-298	c 31	N87-21160 *	US-PATENT-CLASS-210-23F	c 51	N79-10693 *	US-PATENT-CLASS-214-1R	c 37	N76-15457 *
US-PATENT-CLASS-204-299-R	c 25	N88-23845 *	US-PATENT-CLASS-210-23H	c 27	N80-23452 *	US-PATENT-CLASS-214-16.1CB	c 37	N77-22480 *
US-PATENT-CLASS-204-299R	c 25	N78-14104 *	US-PATENT-CLASS-210-234	c 34	N75-33342 *	US-PATENT-CLASS-214-1	c 32	N70-41367 *
US-PATENT-CLASS-204-299R	c 25	N79-14169 *	US-PATENT-CLASS-210-24R	c 27	N81-14076 *	US-PATENT-CLASS-214-90R	c 03	N72-25021 *
US-PATENT-CLASS-204-299R	c 37	N80-14397 *	US-PATENT-CLASS-210-247	c 29	N90-21209 *	US-PATENT-CLASS-215-247	c 33	N76-19339 *
US-PATENT-CLASS-204-299R	c 51	N80-16715 *	US-PATENT-CLASS-210-24	c 27	N77-30236 *	US-PATENT-CLASS-219-10.41	c 33	N82-26571 *
US-PATENT-CLASS-204-299R	c 25	N83-10126 *	US-PATENT-CLASS-210-24	c 25	N81-19244 *	US-PATENT-CLASS-219-10.43	c 31	N85-29083 *
US-PATENT-CLASS-204-299R	c 25	N83-13187 *	US-PATENT-CLASS-210-257.1	c 29	N90-21209 *	US-PATENT-CLASS-219-10.49R	c 33	N81-19389 *
US-PATENT-CLASS-204-299R	c 27	N92-25397 *	US-PATENT-CLASS-210-259	c 34	N75-33342 *	US-PATENT-CLASS-219-10.49	c 11	N71-15925 *
US-PATENT-CLASS-204-299R	c 25	N92-28728 *	US-PATENT-CLASS-210-266	c 25	N92-33029 *	US-PATENT-CLASS-219-10.53	c 31	N85-29083 *
US-PATENT-CLASS-204-299	c 34	N74-27744 *	US-PATENT-CLASS-210-269	c 25	N92-33029 *	US-PATENT-CLASS-219-10.53	c 31	N85-29083 *
US-PATENT-CLASS-204-299	c 25	N79-10163 *	US-PATENT-CLASS-210-282	c 37	N87-17035 *	US-PATENT-CLASS-219-10.67	c 33	N81-19389 *
US-PATENT-CLASS-204-300EC	c 27	N92-25397 *	US-PATENT-CLASS-210-287	c 25	N92-33029 *	US-PATENT-CLASS-219-10.77	c 31	N85-29083 *
US-PATENT-CLASS-204-3001	c 54	N78-14784 *	US-PATENT-CLASS-210-28	c 85	N79-17747 *	US-PATENT-CLASS-219-101	c 15	N73-14468 *
US-PATENT-CLASS-204-305	c 03	N71-24718 *	US-PATENT-CLASS-210-304	c 34	N75-33342 *	US-PATENT-CLASS-219-107	c 37	N74-11300 *
US-PATENT-CLASS-204-30	c 09	N71-28691 *	US-PATENT-CLASS-210-314	c 28	N70-41447 *	US-PATENT-CLASS-219-107	c 15	N73-28515 *
US-PATENT-CLASS-204-32A	c 33	N77-26385 *	US-PATENT-CLASS-210-321.1	c 25	N82-21269 *	US-PATENT-CLASS-219-107	c 37	N74-11300 *
US-PATENT-CLASS-204-32R	c 44	N76-14595 *	US-PATENT-CLASS-210-321.6	c 29	N90-21209 *	US-PATENT-CLASS-219-109	c 15	N72-23497 *
US-PATENT-CLASS-204-324	c 33	N73-16918 *	US-PATENT-CLASS-210-321B	c 52	N80-14687 *	US-PATENT-CLASS-219-117	c 15	N73-32358 *
US-PATENT-CLASS-204-325	c 33	N73-16918 *	US-PATENT-CLASS-210-333	c 34	N75-33342 *	US-PATENT-CLASS-219-118	c 37	N76-27568 *
US-PATENT-CLASS-204-328	c 33	N73-16918 *	US-PATENT-CLASS-210-340	c 34	N75-33342 *			

US-PATENT-CLASS-219-118	c 37	N77-11397 *	US-PATENT-CLASS-219-522	c 52	N80-16725 *	US-PATENT-CLASS-225-2	c 26	N71-14354 *
US-PATENT-CLASS-219-119	c 15	N73-14468 *	US-PATENT-CLASS-219-522	c 27	N84-33589 *	US-PATENT-CLASS-226-190	c 08	N71-19420 *
US-PATENT-CLASS-219-121.28	c 35	N90-20351 *	US-PATENT-CLASS-219-530	c 33	N71-25353 *	US-PATENT-CLASS-226-58	c 14	N71-28935 *
US-PATENT-CLASS-219-121.47	c 75	N91-25875 *	US-PATENT-CLASS-219-539	c 33	N74-14935 *	US-PATENT-CLASS-227-27	c 37	N86-25790 *
US-PATENT-CLASS-219-121.48	c 75	N91-25875 *	US-PATENT-CLASS-219-541	c 27	N84-33589 *	US-PATENT-CLASS-227-28	c 37	N86-25790 *
US-PATENT-CLASS-219-121.52	c 75	N91-25875 *	US-PATENT-CLASS-219-543	c 27	N84-33589 *	US-PATENT-CLASS-228-103	c 35	N83-35338 *
US-PATENT-CLASS-219-121.54	c 37	N88-30131 *	US-PATENT-CLASS-219-545	c 33	N82-26571 *	US-PATENT-CLASS-228-107	c 37	N79-13364 *
US-PATENT-CLASS-219-121.56	c 37	N88-30131 *	US-PATENT-CLASS-219-522	c 15	N73-28515 *	US-PATENT-CLASS-228-107	c 37	N88-14359 *
US-PATENT-CLASS-219-121.57	c 37	N88-30131 *	US-PATENT-CLASS-219-69.11	c 27	N91-25296 *	US-PATENT-CLASS-228-107	c 31	N91-31476 *
US-PATENT-CLASS-219-121.68	c 31	N91-14508 *	US-PATENT-CLASS-219-69.12	c 37	N91-32508 *	US-PATENT-CLASS-228-107	c 31	N92-16162 *
US-PATENT-CLASS-219-121.72	c 37	N91-32508 *	US-PATENT-CLASS-219-69.17	c 35	N92-22038 *	US-PATENT-CLASS-228-109	c 37	N88-14359 *
US-PATENT-CLASS-219-121.72	c 37	N91-32508 *	US-PATENT-CLASS-219-72	c 15	N71-14932 *	US-PATENT-CLASS-228-116	c 37	N81-19455 *
US-PATENT-CLASS-219-121.E	c 26	N86-32551 *	US-PATENT-CLASS-219-72	c 37	N90-19602 *	US-PATENT-CLASS-228-118	c 24	N81-17170 *
US-PATENT-CLASS-219-121LN	c 44	N82-26777 *	US-PATENT-CLASS-219-72	c 33	N92-33030 *	US-PATENT-CLASS-228-118	c 24	N81-26179 *
US-PATENT-CLASS-219-121P	c 26	N86-32551 *	US-PATENT-CLASS-219-74	c 74	N87-25843 *	US-PATENT-CLASS-228-119	c 37	N86-32736 *
US-PATENT-CLASS-219-121Y	c 15	N69-21471 *	US-PATENT-CLASS-219-74	c 37	N90-19602 *	US-PATENT-CLASS-228-124	c 26	N77-29260 *
US-PATENT-CLASS-219-121	c 33	N70-34540 *	US-PATENT-CLASS-219-75	c 37	N88-23980 *	US-PATENT-CLASS-228-124	c 37	N87-21334 *
US-PATENT-CLASS-219-121	c 15	N71-19486 *	US-PATENT-CLASS-219-75	c 31	N90-23586 *	US-PATENT-CLASS-228-13	c 18	N79-11108 *
US-PATENT-CLASS-219-121	c 16	N71-20400 *	US-PATENT-CLASS-219-75	c 31	N90-26168 *	US-PATENT-CLASS-228-15.1	c 18	N79-11108 *
US-PATENT-CLASS-219-121	c 15	N71-27135 *	US-PATENT-CLASS-219-75	c 75	N91-25875 *	US-PATENT-CLASS-228-157	c 24	N82-24296 *
US-PATENT-CLASS-219-124.02	c 37	N88-30131 *	US-PATENT-CLASS-219-75	c 33	N92-33030 *	US-PATENT-CLASS-228-157	c 24	N84-11214 *
US-PATENT-CLASS-219-124.2	c 37	N79-10421 *	US-PATENT-CLASS-219-76.14	c 24	N85-30027 *	US-PATENT-CLASS-228-165	c 35	N84-22930 *
US-PATENT-CLASS-219-124.32	c 37	N79-10421 *	US-PATENT-CLASS-219-76.16	c 75	N91-25875 *	US-PATENT-CLASS-228-170	c 24	N81-17170 *
US-PATENT-CLASS-219-124.34	c 37	N86-21850 *	US-PATENT-CLASS-219-78	c 37	N74-11300 *	US-PATENT-CLASS-228-173	c 18	N79-11108 *
US-PATENT-CLASS-219-124.34	c 74	N87-17493 *	US-PATENT-CLASS-219-85.15	c 26	N92-29094 *	US-PATENT-CLASS-228-174	c 24	N81-17170 *
US-PATENT-CLASS-219-124.34	c 74	N87-25843 *	US-PATENT-CLASS-219-85.19	c 26	N92-29094 *	US-PATENT-CLASS-228-181	c 24	N84-11214 *
US-PATENT-CLASS-219-124.34	c 74	N88-14362 *	US-PATENT-CLASS-219-85CA	c 35	N80-20560 *	US-PATENT-CLASS-228-190	c 24	N75-28135 *
US-PATENT-CLASS-219-125.1	c 37	N79-10421 *	US-PATENT-CLASS-219-85CM	c 35	N80-20560 *	US-PATENT-CLASS-228-190	c 26	N77-28265 *
US-PATENT-CLASS-219-125	c 15	N71-23815 *	US-PATENT-CLASS-219-85F	c 35	N80-20560 *	US-PATENT-CLASS-228-190	c 24	N81-19455 *
US-PATENT-CLASS-219-125	c 37	N75-27376 *	US-PATENT-CLASS-219-85	c 15	N72-22491 *	US-PATENT-CLASS-228-190	c 24	N81-26179 *
US-PATENT-CLASS-219-130.01	c 74	N87-17493 *	US-PATENT-CLASS-219-85	c 15	N72-23497 *	US-PATENT-CLASS-228-193	c 24	N75-28135 *
US-PATENT-CLASS-219-130.01	c 74	N87-25843 *	US-PATENT-CLASS-219-91	c 15	N71-18613 *	US-PATENT-CLASS-228-193	c 37	N76-18455 *
US-PATENT-CLASS-219-130.01	c 37	N88-14362 *	US-PATENT-CLASS-219-91	c 15	N73-32358 *	US-PATENT-CLASS-228-193	c 35	N83-35338 *
US-PATENT-CLASS-219-130.4	c 37	N88-30131 *	US-PATENT-CLASS-219-92	c 37	N76-27568 *	US-PATENT-CLASS-228-194	c 26	N77-28265 *
US-PATENT-CLASS-219-130	c 15	N71-23798 *	US-PATENT-CLASS-219-92	c 37	N77-11397 *	US-PATENT-CLASS-228-1	c 37	N75-25185 *
US-PATENT-CLASS-219-131	c 15	N71-15871 *	US-PATENT-CLASS-22-200	c 15	N71-15966 *	US-PATENT-CLASS-228-2.5	c 37	N79-13364 *
US-PATENT-CLASS-219-136	c 37	N88-14362 *	US-PATENT-CLASS-22-203	c 17	N70-38198 *	US-PATENT-CLASS-228-2.5	c 37	N88-14359 *
US-PATENT-CLASS-219-136	c 31	N90-23586 *	US-PATENT-CLASS-220-14	c 15	N69-39935 *	US-PATENT-CLASS-228-2.5	c 31	N91-31476 *
US-PATENT-CLASS-219-136	c 31	N90-26168 *	US-PATENT-CLASS-220-15	c 31	N71-15664 *	US-PATENT-CLASS-228-2.5	c 31	N92-16162 *
US-PATENT-CLASS-219-137.42	c 37	N88-23980 *	US-PATENT-CLASS-220-15	c 34	N75-12222 *	US-PATENT-CLASS-228-205	c 37	N81-19455 *
US-PATENT-CLASS-219-137	c 15	N70-34814 *	US-PATENT-CLASS-220-1	c 31	N71-17680 *	US-PATENT-CLASS-228-206	c 37	N76-18455 *
US-PATENT-CLASS-219-137	c 37	N75-19683 *	US-PATENT-CLASS-220-2.2	c 24	N79-25143 *	US-PATENT-CLASS-228-208	c 37	N87-21334 *
US-PATENT-CLASS-219-158	c 15	N72-22491 *	US-PATENT-CLASS-220-266	c 37	N79-22474 *	US-PATENT-CLASS-228-209	c 37	N87-21334 *
US-PATENT-CLASS-219-160	c 37	N80-23655 *	US-PATENT-CLASS-220-306	c 27	N84-27886 *	US-PATENT-CLASS-228-212	c 37	N80-23655 *
US-PATENT-CLASS-219-161	c 37	N80-23655 *	US-PATENT-CLASS-220-335	c 45	N83-25217 *	US-PATENT-CLASS-228-212	c 24	N84-11214 *
US-PATENT-CLASS-219-19	c 33	N70-34812 *	US-PATENT-CLASS-220-378	c 37	N82-24490 *	US-PATENT-CLASS-228-214	c 37	N76-18455 *
US-PATENT-CLASS-219-201	c 52	N80-16725 *	US-PATENT-CLASS-220-423	c 37	N80-18393 *	US-PATENT-CLASS-228-222	c 37	N80-23655 *
US-PATENT-CLASS-219-201	c 37	N85-29286 *	US-PATENT-CLASS-220-429	c 44	N80-20808 *	US-PATENT-CLASS-228-232	c 26	N77-28265 *
US-PATENT-CLASS-219-203	c 11	N73-12265 *	US-PATENT-CLASS-220-445	c 37	N80-18393 *	US-PATENT-CLASS-228-238	c 37	N76-18455 *
US-PATENT-CLASS-219-203	c 27	N84-33589 *	US-PATENT-CLASS-220-46	c 15	N71-27068 *	US-PATENT-CLASS-228-263.18	c 35	N83-35338 *
US-PATENT-CLASS-219-209	c 35	N81-26431 *	US-PATENT-CLASS-220-5A	c 31	N89-29578 *	US-PATENT-CLASS-228-263	c 26	N77-29260 *
US-PATENT-CLASS-219-210	c 35	N81-26431 *	US-PATENT-CLASS-220-5F	c 15	N72-22486 *	US-PATENT-CLASS-228-44.1R	c 37	N80-23655 *
US-PATENT-CLASS-219-216	c 35	N74-15831 *	US-PATENT-CLASS-220-55	c 15	N69-27502 *	US-PATENT-CLASS-228-5.1	c 44	N79-24431 *
US-PATENT-CLASS-219-219	c 27	N84-33589 *	US-PATENT-CLASS-220-63	c 11	N70-38182 *	US-PATENT-CLASS-228-50	c 15	N70-39924 *
US-PATENT-CLASS-219-221	c 15	N72-11392 *	US-PATENT-CLASS-220-67	c 15	N71-10577 *	US-PATENT-CLASS-228-50	c 15	N70-40204 *
US-PATENT-CLASS-219-221	c 37	N85-29286 *	US-PATENT-CLASS-220-82R	c 31	N81-19343 *	US-PATENT-CLASS-228-53	c 15	N71-27214 *
US-PATENT-CLASS-219-229	c 15	N71-27214 *	US-PATENT-CLASS-220-89A	c 31	N81-19343 *	US-PATENT-CLASS-228-57	c 15	N72-22491 *
US-PATENT-CLASS-219-234	c 15	N72-22491 *	US-PATENT-CLASS-220-89	c 11	N71-15966 *	US-PATENT-CLASS-228-6	c 44	N79-24431 *
US-PATENT-CLASS-219-234	c 15	N72-23497 *	US-PATENT-CLASS-220-89	c 11	N71-17600 *	US-PATENT-CLASS-228-7	c 15	N71-15607 *
US-PATENT-CLASS-219-243	c 15	N72-11392 *	US-PATENT-CLASS-220-901	c 37	N80-18393 *	US-PATENT-CLASS-228-8	c 15	N71-23050 *
US-PATENT-CLASS-219-273	c 15	N72-32487 *	US-PATENT-CLASS-220-901	c 31	N89-29578 *	US-PATENT-CLASS-228-8	c 37	N79-10421 *
US-PATENT-CLASS-219-275	c 15	N71-20395 *	US-PATENT-CLASS-220-908	c 31	N92-33612 *	US-PATENT-CLASS-228-9	c 15	N71-20393 *
US-PATENT-CLASS-219-275	c 20	N87-16875 *	US-PATENT-CLASS-220-9	c 23	N71-22881 *	US-PATENT-CLASS-229-DIG.11	c 32	N73-10921 *
US-PATENT-CLASS-219-285	c 37	N85-29286 *	US-PATENT-CLASS-220-9	c 18	N71-23658 *	US-PATENT-CLASS-23-109	c 04	N72-33072 *
US-PATENT-CLASS-219-299	c 51	N79-10694 *	US-PATENT-CLASS-220-9	c 15	N71-23816 *	US-PATENT-CLASS-23-201	c 06	N72-17095 *
US-PATENT-CLASS-219-300	c 37	N77-13418 *	US-PATENT-CLASS-220-9	c 33	N71-25351 *	US-PATENT-CLASS-23-208	c 15	N69-21922 *
US-PATENT-CLASS-219-302	c 51	N79-10694 *	US-PATENT-CLASS-221-265	c 51	N74-15778 *	US-PATENT-CLASS-23-208	c 26	N70-36805 *
US-PATENT-CLASS-219-304	c 37	N77-13418 *	US-PATENT-CLASS-222-131	c 31	N79-21225 *	US-PATENT-CLASS-23-209.1	c 15	N72-20446 *
US-PATENT-CLASS-219-343	c 27	N83-36220 *	US-PATENT-CLASS-222-135	c 15	N72-21465 *	US-PATENT-CLASS-23-230B	c 25	N75-14844 *
US-PATENT-CLASS-219-347	c 15	N69-27871 *	US-PATENT-CLASS-222-137	c 14	N71-27005 *	US-PATENT-CLASS-23-230B	c 23	N77-17161 *
US-PATENT-CLASS-219-347	c 33	N70-34545 *	US-PATENT-CLASS-222-145	c 37	N76-19436 *	US-PATENT-CLASS-23-230B	c 25	N79-14169 *
US-PATENT-CLASS-219-348	c 15	N73-27405 *	US-PATENT-CLASS-222-187	c 31	N90-23587 *	US-PATENT-CLASS-23-230B	c 51	N80-27067 *
US-PATENT-CLASS-219-348	c 09	N70-33312 *	US-PATENT-CLASS-222-193	c 37	N74-13178 *	US-PATENT-CLASS-23-230L	c 35	N74-32879 *
US-PATENT-CLASS-219-354	c 27	N83-36220 *	US-PATENT-CLASS-222-309	c 15	N72-21465 *	US-PATENT-CLASS-23-230M	c 25	N76-18245 *
US-PATENT-CLASS-219-364	c 33	N71-16278 *	US-PATENT-CLASS-222-309	c 54	N74-12779 *	US-PATENT-CLASS-23-230M	c 23	N77-17161 *
US-PATENT-CLASS-219-378	c 33	N71-25353 *	US-PATENT-CLASS-222-309	c 35	N85-21595 *	US-PATENT-CLASS-23-230PC	c 25	N78-15210 *
US-PATENT-CLASS-219-383	c 09	N88-28939 *	US-PATENT-CLASS-222-324	c 54	N74-17853 *	US-PATENT-CLASS-23-230PC	c 25	N82-12166 *
US-PATENT-CLASS-219-388	c 35	N74-15831 *	US-PATENT-CLASS-222-340	c 54	N74-12779 *	US-PATENT-CLASS-23-230R	c 06	N72-17094 *
US-PATENT-CLASS-219-390	c 27	N83-36220 *	US-PATENT-CLASS-222-340	c 35	N85-21595 *	US-PATENT-CLASS-23-230R	c 17	N73-12547 *
US-PATENT-CLASS-219-390	c 35	N86-20750 *	US-PATENT-CLASS-222-387	c 54	N74-12779 *	US-PATENT-CLASS-23-230R	c 17	N73-27446 *
US-PATENT-CLASS-219-390	c 14	N91-27175 *	US-PATENT-CLASS-222-389	c 15	N70-38996 *	US-PATENT-CLASS-23-230R	c 25	N76-18245 *
US-PATENT-CLASS-219-395	c 35	N86-20750 *	US-PATENT-CLASS-222-414	c 14	N73-27378 *	US-PATENT-CLASS-23-230R	c 45	N76-31714 *
US-PATENT-CLASS-219-396	c 35	N86-20750 *	US-PATENT-CLASS-222-414	c 35	N85-21595 *	US-PATENT-CLASS-23-230R	c 23	N77-17161 *
US-PATENT-CLASS-219-410	c 12	N79-26075 *	US-PATENT-CLASS-222-45	c 14	N70-40233 *	US-PATENT-CLASS-23-230	c 06	N71-23527 *
US-PATENT-CLASS-219-411	c 17	N69-25147 *	US-PATENT-CLASS-222-48	c 35	N85-21595 *	US-PATENT-CLASS-23-230	c 06	N72-17095 *
US-PATENT-CLASS-219-411	c 27	N83-36220 *	US-PATENT-CLASS-222-49	c 14	N71-27005 *	US-PATENT-CLASS-23-231	c 23	N77-17161 *
US-PATENT-CLASS-219-413	c 14	N71-28958 *	US-PATENT-CLASS-222-514	c 54	N74-12779 *	US-PATENT-CLASS-23-232C	c 06	N72-17094 *
US-PATENT-CLASS-219-477	c 33	N74-14935 *	US-PATENT-CLASS-222-61	c 27	N71-29155 *	US-PATENT-CLASS-23-232C	c 25	N76-18245 *
US-PATENT-CLASS-219-497	c 77	N75-20140 *	US-PATENT-CLASS-222-61	c 37	N77-28487 *	US-PATENT-CLASS-23-232C	c 23	N77-17161 *
US-PATENT-CLASS-219-499	c 14	N73-26430 *	US-PATENT-CLASS-222-71	c 15	N72-21465 *	US-PATENT-CLASS-23-232E	c 06	N73-16106 *
US-PATENT-CLASS-219-501	c 77	N75-20140 *	US-PATENT-CLASS-222-95	c 37	N77-28487 *	US-PATENT-CLASS-23-232E	c 45	N76-31714 *
US-PATENT-CLASS-219-505	c 14	N71-27058 *	US-PATENT-CLASS-224-25A	c 05	N72-23085 *	US-PATENT-CLASS-23-232E	c 25	N78-15210 *
US-PATENT-CLASS-219-505	c 77	N75-20140 *	US-PATENT-CLASS-224-25	c 05	N71-12351 *	US-PATENT-CLASS-23-232E	c 25	N82-12166 *
US-PATENT-CLASS-219-50	c 14	N73-26430 *	US-PATENT-CLASS-224-444	c 54	N74-17853 *	US-PATENT-CLASS-23-232R	c 06	N73-16106 *
US-PATENT-CLASS-219-510	c 35	N81-26431 *	US-PATENT-CLASS-225-103	c 37	N82-32730 *	US-PATENT-CLASS-23-232R	c 45	N76-31714 *
US-PATENT-CLASS-219-522	c 11	N73-12265 *	US-PATENT-CLASS-225-1	c 15	N71-17628 *	US-PATENT-CLASS-23-232R	c 23	N77-17161 *

US-PATENT-CLASS-23-232R	c 25	N78-15210 *	US-PATENT-CLASS-235-152	c 08	N72-25210 *	US-PATENT-CLASS-236-49	c 31	N80-32583 *
US-PATENT-CLASS-23-252R	c 25	N74-12813 *	US-PATENT-CLASS-235-152	c 08	N73-12175 *	US-PATENT-CLASS-236-68	c 15	N72-12409 *
US-PATENT-CLASS-23-252R	c 25	N79-10162 *	US-PATENT-CLASS-235-152	c 09	N73-13209 *	US-PATENT-CLASS-236-94	c 35	N91-21496 *
US-PATENT-CLASS-23-252R	c 25	N79-28253 *	US-PATENT-CLASS-235-152	c 08	N73-26175 *	US-PATENT-CLASS-237-1A	c 44	N76-14602 *
US-PATENT-CLASS-23-253A	c 51	N77-27677 *	US-PATENT-CLASS-235-152	c 60	N77-14751 *	US-PATENT-CLASS-237-1A	c 44	N78-10554 *
US-PATENT-CLASS-23-253A	c 54	N78-14784 *	US-PATENT-CLASS-235-153AE	c 60	N76-21914 *	US-PATENT-CLASS-237-1A	c 44	N78-15560 *
US-PATENT-CLASS-23-253PC	c 06	N72-17094 *	US-PATENT-CLASS-235-153AK	c 62	N74-14920 *	US-PATENT-CLASS-237-1A	c 44	N78-17460 *
US-PATENT-CLASS-23-253PC	c 37	N74-18123 *	US-PATENT-CLASS-235-153	c 08	N71-24633 *	US-PATENT-CLASS-237-1A	c 44	N78-31525 *
US-PATENT-CLASS-23-253R	c 15	N72-21465 *	US-PATENT-CLASS-235-153	c 08	N72-22166 *	US-PATENT-CLASS-237-1A	c 44	N79-24433 *
US-PATENT-CLASS-23-253R	c 25	N75-14844 *	US-PATENT-CLASS-235-154	c 08	N70-34778 *	US-PATENT-CLASS-237-60	c 34	N76-17137 *
US-PATENT-CLASS-23-253R	c 25	N76-18245 *	US-PATENT-CLASS-235-154	c 10	N71-23662 *	US-PATENT-CLASS-238-134	c 85	N74-34672 *
US-PATENT-CLASS-23-253	c 23	N71-16355 *	US-PATENT-CLASS-235-154	c 08	N72-18184 *	US-PATENT-CLASS-238-1	c 05	N71-28619 *
US-PATENT-CLASS-23-253	c 06	N71-26754 *	US-PATENT-CLASS-235-154	c 08	N72-25206 *	US-PATENT-CLASS-239-DIG.23	c 37	N85-29283 *
US-PATENT-CLASS-23-253	c 06	N72-17095 *	US-PATENT-CLASS-235-155	c 08	N71-24890 *	US-PATENT-CLASS-239-102	c 37	N80-10494 *
US-PATENT-CLASS-23-254EF	c 35	N76-18403 *	US-PATENT-CLASS-235-155	c 08	N72-21197 *	US-PATENT-CLASS-239-127.1	c 28	N71-23968 *
US-PATENT-CLASS-23-254E	c 06	N73-16106 *	US-PATENT-CLASS-235-155	c 08	N73-12176 *	US-PATENT-CLASS-239-127.1	c 28	N73-32606 *
US-PATENT-CLASS-23-254E	c 33	N75-26245 *	US-PATENT-CLASS-235-156	c 08	N71-18693 *	US-PATENT-CLASS-239-127.1	c 34	N79-13288 *
US-PATENT-CLASS-23-254E	c 35	N75-29380 *	US-PATENT-CLASS-235-156	c 60	N75-13539 *	US-PATENT-CLASS-239-127.1	c 34	N79-13289 *
US-PATENT-CLASS-23-254E	c 45	N76-21742 *	US-PATENT-CLASS-235-156	c 32	N76-21366 *	US-PATENT-CLASS-239-127.1	c 34	N80-24573 *
US-PATENT-CLASS-23-254R	c 06	N73-16106 *	US-PATENT-CLASS-235-156	c 32	N77-10392 *	US-PATENT-CLASS-239-127.1	c 44	N81-24519 *
US-PATENT-CLASS-23-254R	c 25	N76-18245 *	US-PATENT-CLASS-235-156	c 38	N78-17395 *	US-PATENT-CLASS-239-127.1	c 37	N92-16318 *
US-PATENT-CLASS-23-254R	c 23	N77-17161 *	US-PATENT-CLASS-235-156	c 38	N78-17396 *	US-PATENT-CLASS-239-127.3	c 20	N76-14191 *
US-PATENT-CLASS-23-254	c 14	N71-20442 *	US-PATENT-CLASS-235-158	c 08	N71-19437 *	US-PATENT-CLASS-239-127.3	c 07	N80-32392 *
US-PATENT-CLASS-23-255E	c 35	N75-29380 *	US-PATENT-CLASS-235-164	c 08	N71-33110 *	US-PATENT-CLASS-239-127.3	c 37	N92-16318 *
US-PATENT-CLASS-23-255R	c 25	N76-18245 *	US-PATENT-CLASS-235-164	c 08	N73-26175 *	US-PATENT-CLASS-239-132.5	c 20	N87-14420 *
US-PATENT-CLASS-23-259	c 15	N71-27372 *	US-PATENT-CLASS-235-164	c 60	N74-20836 *	US-PATENT-CLASS-239-14.1	c 09	N89-25242 *
US-PATENT-CLASS-23-259	c 15	N72-21465 *	US-PATENT-CLASS-235-175	c 08	N71-18602 *	US-PATENT-CLASS-239-145	c 31	N90-23587 *
US-PATENT-CLASS-23-259	c 37	N74-18123 *	US-PATENT-CLASS-235-175	c 08	N71-33110 *	US-PATENT-CLASS-239-171	c 37	N77-13418 *
US-PATENT-CLASS-23-259	c 51	N77-27677 *	US-PATENT-CLASS-235-176	c 08	N70-34787 *	US-PATENT-CLASS-239-2.1	c 09	N89-25242 *
US-PATENT-CLASS-23-277C	c 25	N74-33378 *	US-PATENT-CLASS-235-181	c 07	N71-21476 *	US-PATENT-CLASS-239-265.11	c 18	N71-21068 *
US-PATENT-CLASS-23-277R	c 44	N77-22607 *	US-PATENT-CLASS-235-181	c 07	N73-13149 *	US-PATENT-CLASS-239-265.11	c 07	N74-33218 *
US-PATENT-CLASS-23-277	c 26	N70-40015 *	US-PATENT-CLASS-235-181	c 35	N75-21582 *	US-PATENT-CLASS-239-265.11	c 07	N76-18117 *
US-PATENT-CLASS-23-281	c 28	N72-18766 *	US-PATENT-CLASS-235-181	c 33	N75-26243 *	US-PATENT-CLASS-239-265.11	c 37	N90-23751 *
US-PATENT-CLASS-23-281	c 25	N74-12813 *	US-PATENT-CLASS-235-181	c 43	N77-10584 *	US-PATENT-CLASS-239-265.11	c 37	N91-27560 *
US-PATENT-CLASS-23-281	c 44	N76-18642 *	US-PATENT-CLASS-235-181	c 38	N78-17395 *	US-PATENT-CLASS-239-265.11	c 37	N92-22043 *
US-PATENT-CLASS-23-281	c 44	N76-29700 *	US-PATENT-CLASS-235-183	c 08	N72-22165 *	US-PATENT-CLASS-239-265.15	c 37	N79-22474 *
US-PATENT-CLASS-23-281	c 44	N77-10636 *	US-PATENT-CLASS-235-184	c 74	N76-18913 *	US-PATENT-CLASS-239-265.17	c 07	N74-27490 *
US-PATENT-CLASS-23-281	c 44	N77-22607 *	US-PATENT-CLASS-235-186	c 10	N73-26230 *	US-PATENT-CLASS-239-265.17	c 07	N83-33884 *
US-PATENT-CLASS-23-284	c 35	N74-15127 *	US-PATENT-CLASS-235-194	c 09	N71-19480 *	US-PATENT-CLASS-239-265.17	c 71	N84-14873 *
US-PATENT-CLASS-23-288F	c 25	N74-12813 *	US-PATENT-CLASS-235-194	c 08	N72-22165 *	US-PATENT-CLASS-239-265.17	c 20	N89-25279 *
US-PATENT-CLASS-23-288J	c 25	N74-12813 *	US-PATENT-CLASS-235-194	c 10	N73-26230 *	US-PATENT-CLASS-239-265.19	c 28	N71-21493 *
US-PATENT-CLASS-23-288R	c 28	N80-10374 *	US-PATENT-CLASS-235-197	c 08	N72-22165 *	US-PATENT-CLASS-239-265.19	c 28	N72-11708 *
US-PATENT-CLASS-23-288	c 28	N72-18766 *	US-PATENT-CLASS-235-197	c 09	N72-23173 *	US-PATENT-CLASS-239-265.25	c 07	N78-27121 *
US-PATENT-CLASS-23-292	c 51	N77-27677 *	US-PATENT-CLASS-235-197	c 10	N73-20253 *	US-PATENT-CLASS-239-265.25	c 09	N78-31129 *
US-PATENT-CLASS-23-293R	c 28	N81-15119 *	US-PATENT-CLASS-235-197	c 10	N73-26230 *	US-PATENT-CLASS-239-265.33	c 07	N78-27121 *
US-PATENT-CLASS-23-295R	c 76	N85-29800 *	US-PATENT-CLASS-235-197	c 60	N75-13539 *	US-PATENT-CLASS-239-265.33	c 07	N80-32392 *
US-PATENT-CLASS-23-300	c 28	N80-23471 *	US-PATENT-CLASS-235-201	c 10	N71-25899 *	US-PATENT-CLASS-239-265.39	c 07	N79-14097 *
US-PATENT-CLASS-23-302A	c 28	N80-23471 *	US-PATENT-CLASS-235-61.6	c 01	N71-13411 *	US-PATENT-CLASS-239-265.43	c 28	N71-16224 *
US-PATENT-CLASS-23-302R	c 28	N80-23471 *	US-PATENT-CLASS-235-61.6	c 15	N71-21179 *	US-PATENT-CLASS-239-265.43	c 28	N72-11708 *
US-PATENT-CLASS-23-302T	c 28	N80-23471 *	US-PATENT-CLASS-235-61INV	c 08	N72-11172 *	US-PATENT-CLASS-239-288	c 37	N79-22474 *
US-PATENT-CLASS-23-313R	c 71	N85-22104 *	US-PATENT-CLASS-235-61INV	c 35	N76-29552 *	US-PATENT-CLASS-239-288	c 37	N85-29283 *
US-PATENT-CLASS-23-55	c 06	N72-17093 *	US-PATENT-CLASS-235-70	c 04	N78-17031 *	US-PATENT-CLASS-239-302	c 37	N80-10494 *
US-PATENT-CLASS-23-88	c 06	N72-17093 *	US-PATENT-CLASS-235-78M	c 35	N76-29552 *	US-PATENT-CLASS-239-322	c 37	N85-29283 *
US-PATENT-CLASS-23-927	c 51	N80-16714 *	US-PATENT-CLASS-235-88M	c 35	N76-29552 *	US-PATENT-CLASS-239-327	c 37	N85-29283 *
US-PATENT-CLASS-23-97	c 06	N72-17093 *	US-PATENT-CLASS-235-92CA	c 33	N74-10223 *	US-PATENT-CLASS-239-375	c 37	N85-29283 *
US-PATENT-CLASS-230-162	c 33	N71-17610 *	US-PATENT-CLASS-235-92CA	c 38	N77-17495 *	US-PATENT-CLASS-239-402.5	c 07	N85-35195 *
US-PATENT-CLASS-230-221	c 11	N72-22245 *	US-PATENT-CLASS-235-92CC	c 08	N72-20176 *	US-PATENT-CLASS-239-403	c 20	N87-14420 *
US-PATENT-CLASS-230-54	c 11	N72-22245 *	US-PATENT-CLASS-235-92CT	c 38	N77-17495 *	US-PATENT-CLASS-239-416	c 15	N69-23185 *
US-PATENT-CLASS-233-DIG.1	c 34	N75-26282 *	US-PATENT-CLASS-235-92CV	c 08	N73-25206 *	US-PATENT-CLASS-239-416	c 15	N71-17654 *
US-PATENT-CLASS-233-11	c 15	N71-16079 *	US-PATENT-CLASS-235-92DE	c 08	N72-20176 *	US-PATENT-CLASS-239-418	c 28	N72-23809 *
US-PATENT-CLASS-233-20RP	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 08	N72-20176 *	US-PATENT-CLASS-239-424	c 15	N72-25455 *
US-PATENT-CLASS-233-25	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 33	N74-10223 *	US-PATENT-CLASS-239-425	c 20	N87-14420 *
US-PATENT-CLASS-233-46	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 33	N75-19519 *	US-PATENT-CLASS-239-426	c 34	N84-12406 *
US-PATENT-CLASS-233-6	c 34	N75-26282 *	US-PATENT-CLASS-235-92DN	c 08	N73-25206 *	US-PATENT-CLASS-239-426	c 34	N87-21255 *
US-PATENT-CLASS-235.150.27	c 04	N74-13420 *	US-PATENT-CLASS-235-92DN	c 38	N77-17495 *	US-PATENT-CLASS-239-433	c 28	N72-23809 *
US-PATENT-CLASS-235-10.2	c 08	N73-25206 *	US-PATENT-CLASS-235-92EA	c 08	N73-25206 *	US-PATENT-CLASS-239-433	c 37	N87-24689 *
US-PATENT-CLASS-235-150.1	c 08	N71-29033 *	US-PATENT-CLASS-235-92EV	c 08	N73-25206 *	US-PATENT-CLASS-239-434	c 34	N87-21255 *
US-PATENT-CLASS-235-150.1	c 08	N72-31226 *	US-PATENT-CLASS-235-92FQ	c 08	N73-20217 *	US-PATENT-CLASS-239-499	c 34	N82-13376 *
US-PATENT-CLASS-235-150.1	c 32	N77-10392 *	US-PATENT-CLASS-235-92GL	c 08	N72-20176 *	US-PATENT-CLASS-239-533.13	c 34	N92-21724 *
US-PATENT-CLASS-235-150.22	c 02	N71-13421 *	US-PATENT-CLASS-235-92GL	c 33	N75-19519 *	US-PATENT-CLASS-239-543	c 28	N72-23809 *
US-PATENT-CLASS-235-150.22	c 04	N74-13420 *	US-PATENT-CLASS-235-92MT	c 08	N72-31226 *	US-PATENT-CLASS-239-543	c 31	N90-20254 *
US-PATENT-CLASS-235-150.25	c 21	N71-21688 *	US-PATENT-CLASS-235-92MT	c 32	N73-26910 *	US-PATENT-CLASS-239-543	c 34	N92-21724 *
US-PATENT-CLASS-235-150.25	c 35	N77-20399 *	US-PATENT-CLASS-235-92PC	c 35	N82-11431 *	US-PATENT-CLASS-239-545	c 34	N87-21255 *
US-PATENT-CLASS-235-150.26	c 04	N74-13420 *	US-PATENT-CLASS-235-92PE	c 37	N74-21056 *	US-PATENT-CLASS-239-546	c 34	N92-21724 *
US-PATENT-CLASS-235-150.27	c 08	N71-29033 *	US-PATENT-CLASS-235-92R	c 08	N72-20176 *	US-PATENT-CLASS-239-552	c 34	N92-21724 *
US-PATENT-CLASS-235-150.2	c 08	N71-29033 *	US-PATENT-CLASS-235-92R	c 08	N73-20217 *	US-PATENT-CLASS-239-562	c 43	N81-26509 *
US-PATENT-CLASS-235-150.2	c 35	N77-20399 *	US-PATENT-CLASS-235-92R	c 08	N73-25206 *	US-PATENT-CLASS-239-568	c 37	N84-16561 *
US-PATENT-CLASS-235-150.3	c 33	N74-10223 *	US-PATENT-CLASS-235-92R	c 33	N75-19519 *	US-PATENT-CLASS-239-589	c 34	N82-13376 *
US-PATENT-CLASS-235-150.52	c 08	N72-22165 *	US-PATENT-CLASS-235-92R	c 38	N77-17495 *	US-PATENT-CLASS-239-590	c 37	N85-29283 *
US-PATENT-CLASS-235-150.53	c 08	N72-22165 *	US-PATENT-CLASS-235-92SB	c 37	N74-21056 *	US-PATENT-CLASS-239-591	c 43	N81-26509 *
US-PATENT-CLASS-235-150.53	c 07	N73-13149 *	US-PATENT-CLASS-235-92SH	c 33	N76-14373 *	US-PATENT-CLASS-239-596	c 37	N87-24689 *
US-PATENT-CLASS-235-150.53	c 33	N75-26243 *	US-PATENT-CLASS-235-92T	c 03	N72-25020 *	US-PATENT-CLASS-239-597	c 31	N91-15424 *
US-PATENT-CLASS-235-151.13	c 25	N76-18245 *	US-PATENT-CLASS-235-92T	c 08	N73-20217 *	US-PATENT-CLASS-239-600	c 37	N87-24689 *
US-PATENT-CLASS-235-151.1	c 08	N71-29033 *	US-PATENT-CLASS-235-92T	c 33	N75-19519 *	US-PATENT-CLASS-239-601	c 34	N82-13376 *
US-PATENT-CLASS-235-151.1	c 08	N72-31226 *	US-PATENT-CLASS-235-92VA	c 33	N75-19519 *	US-PATENT-CLASS-239-601	c 31	N91-15424 *
US-PATENT-CLASS-235-151.27	c 10	N73-25206 *	US-PATENT-CLASS-235-92	c 08	N71-22897 *	US-PATENT-CLASS-239-602	c 34	N92-21724 *
US-PATENT-CLASS-235-151.31	c 08	N73-25240 *	US-PATENT-CLASS-235-92	c 08	N71-24891 *	US-PATENT-CLASS-239-690	c 28	N82-18401 *
US-PATENT-CLASS-235-151.34	c 35	N76-14431 *	US-PATENT-CLASS-235-92	c 10	N71-27137 *	US-PATENT-CLASS-24-126	c 15	N71-22994 *
US-PATENT-CLASS-235-151.3	c 52	N74-22771 *	US-PATENT-CLASS-235-92	c 14	N71-27215 *	US-PATENT-CLASS-24-134R	c 15	N73-25512 *
US-PATENT-CLASS-235-151.3	c 38	N78-17395 *	US-PATENT-CLASS-236-1F	c 35	N81-26431 *	US-PATENT-CLASS-24-205.17	c 15	N71-25975 *
US-PATENT-CLASS-235-151.3	c 38	N78-17396 *	US-PATENT-CLASS-236-13	c 31	N80-32583 *	US-PATENT-CLASS-24-211N	c 15	N72-11385 *
US-PATENT-CLASS-235-151	c 37	N74-21056 *	US-PATENT-CLASS-236-15E	c 25	N88-29002 *	US-PATENT-CLASS-24-211	c 15	N71-17653 *
US-PATENT-CLASS-235-152IE	c 08	N73-32081 *	US-PATENT-CLASS-236-1	c 33	N71-16357 *	US-PATENT-CLASS-24-214	c 31	N83-31895 *
US-PATENT-CLASS-235-152	c 07	N71-24741 *	US-PATENT-CLASS-236-44A	c 35	N91-21496 *	US-PATENT-CLASS-24-263	c 15	N71-21076 *
US-PATENT-CLASS-235-152	c 08	N72-20176 *	US-PATENT-CLASS-236-44C	c 31	N80-32583 *	US-PATENT-CLASS-24-263	c 15	N71-26162 *
US-PATENT-CLASS-235-152	c 08	N72-22167 *	US-PATENT-CLASS-236-49	c 31	N74-27902 *	US-PATENT-CLASS-24-304	c 27	N85-20125 *

US-PATENT-CLASS-244-447	c 27	N85-20125 *	US-PATENT-CLASS-244-120	c 05	N88-23765 *	US-PATENT-CLASS-244-158R	c 16	N90-22584 *
US-PATENT-CLASS-244-450	c 27	N85-20125 *	US-PATENT-CLASS-244-120	c 05	N91-31140 *	US-PATENT-CLASS-244-158R	c 18	N91-21222 *
US-PATENT-CLASS-244-560	c 52	N84-28388 *	US-PATENT-CLASS-244-121	c 27	N79-12221 *	US-PATENT-CLASS-244-158R	c 18	N92-15114 *
US-PATENT-CLASS-244-635	c 37	N90-17154 *	US-PATENT-CLASS-244-121	c 24	N79-25142 *	US-PATENT-CLASS-244-158R	c 16	N92-16007 *
US-PATENT-CLASS-244-688	c 54	N89-29953 *	US-PATENT-CLASS-244-121	c 15	N79-26100 *	US-PATENT-CLASS-244-158R	c 35	N92-33010 *
US-PATENT-CLASS-244-693	c 27	N85-20125 *	US-PATENT-CLASS-244-121	c 27	N82-24339 *	US-PATENT-CLASS-244-158R	c 18	N92-33013 *
US-PATENT-CLASS-240-1.2	c 11	N70-33329 *	US-PATENT-CLASS-244-121	c 27	N82-29456 *	US-PATENT-CLASS-244-158	c 37	N76-22540 *
US-PATENT-CLASS-240-11.2	c 09	N71-26787 *	US-PATENT-CLASS-244-121	c 37	N87-17036 *	US-PATENT-CLASS-244-158	c 27	N79-12221 *
US-PATENT-CLASS-240-11.4	c 09	N71-26787 *	US-PATENT-CLASS-244-121	c 16	N92-16007 *	US-PATENT-CLASS-244-159	c 18	N79-11108 *
US-PATENT-CLASS-240-41.35R	c 74	N77-21941 *	US-PATENT-CLASS-244-122AD	c 03	N91-15142 *	US-PATENT-CLASS-244-159	c 07	N83-20944 *
US-PATENT-CLASS-240-41B	c 36	N75-27364 *	US-PATENT-CLASS-244-122	c 05	N71-20718 *	US-PATENT-CLASS-244-159	c 31	N83-31895 *
US-PATENT-CLASS-240-41R	c 74	N77-21941 *	US-PATENT-CLASS-244-123	c 24	N77-28225 *	US-PATENT-CLASS-244-159	c 18	N86-24729 *
US-PATENT-CLASS-240-46.13	c 74	N77-21941 *	US-PATENT-CLASS-244-123	c 24	N82-24296 *	US-PATENT-CLASS-244-159	c 37	N86-25789 *
US-PATENT-CLASS-240-47	c 34	N74-23066 *	US-PATENT-CLASS-244-123	c 24	N82-26384 *	US-PATENT-CLASS-244-159	c 18	N88-26398 *
US-PATENT-CLASS-240-51.11	c 09	N71-26787 *	US-PATENT-CLASS-244-123	c 24	N84-11214 *	US-PATENT-CLASS-244-159	c 18	N89-25266 *
US-PATENT-CLASS-241-95	c 37	N84-16561 *	US-PATENT-CLASS-244-127	c 34	N74-23039 *	US-PATENT-CLASS-244-159	c 18	N89-28553 *
US-PATENT-CLASS-242-107	c 33	N86-20669 *	US-PATENT-CLASS-244-129.4	c 16	N92-16007 *	US-PATENT-CLASS-244-159	c 18	N90-16860 *
US-PATENT-CLASS-242-128	c 15	N82-24272 *	US-PATENT-CLASS-244-129.5	c 18	N90-19278 *	US-PATENT-CLASS-244-159	c 18	N90-20126 *
US-PATENT-CLASS-242-187	c 37	N77-14479 *	US-PATENT-CLASS-244-12	c 02	N70-33332 *	US-PATENT-CLASS-244-159	c 18	N91-27201 *
US-PATENT-CLASS-242-192	c 14	N71-23698 *	US-PATENT-CLASS-244-130	c 02	N77-10001 *	US-PATENT-CLASS-244-159	c 54	N91-31803 *
US-PATENT-CLASS-242-193	c 37	N77-14479 *	US-PATENT-CLASS-244-130	c 02	N81-14968 *	US-PATENT-CLASS-244-15	c 05	N75-25914 *
US-PATENT-CLASS-242-204	c 37	N77-14479 *	US-PATENT-CLASS-244-130	c 37	N81-24443 *	US-PATENT-CLASS-244-15	c 05	N88-23765 *
US-PATENT-CLASS-242-210	c 37	N77-14479 *	US-PATENT-CLASS-244-130	c 02	N87-16793 *	US-PATENT-CLASS-244-160	c 27	N79-12221 *
US-PATENT-CLASS-242-54-R	c 33	N86-20669 *	US-PATENT-CLASS-244-130	c 07	N87-16828 *	US-PATENT-CLASS-244-160	c 43	N81-17499 *
US-PATENT-CLASS-242-54	c 15	N72-18477 *	US-PATENT-CLASS-244-130	c 02	N88-14071 *	US-PATENT-CLASS-244-160	c 14	N81-26161 *
US-PATENT-CLASS-242-55.19	c 14	N70-41647 *	US-PATENT-CLASS-244-130	c 05	N88-23765 *	US-PATENT-CLASS-244-160	c 27	N82-24339 *
US-PATENT-CLASS-242-55.19	c 07	N71-10609 *	US-PATENT-CLASS-244-130	c 05	N90-20078 *	US-PATENT-CLASS-244-160	c 27	N82-29456 *
US-PATENT-CLASS-242-57	c 37	N77-14479 *	US-PATENT-CLASS-244-130	c 05	N90-20079 *	US-PATENT-CLASS-244-160	c 16	N90-22584 *
US-PATENT-CLASS-244-12.2	c 05	N82-26277 *	US-PATENT-CLASS-244-130	c 34	N91-14562 *	US-PATENT-CLASS-244-160	c 18	N92-21999 *
US-PATENT-CLASS-244-ISS	c 03	N72-20031 *	US-PATENT-CLASS-244-130	c 05	N91-27156 *	US-PATENT-CLASS-244-160	c 18	N92-33013 *
US-PATENT-CLASS-244-1.55	c 03	N73-20040 *	US-PATENT-CLASS-244-132	c 24	N82-26384 *	US-PATENT-CLASS-244-161	c 18	N76-14186 *
US-PATENT-CLASS-244-1-R	c 06	N87-22678 *	US-PATENT-CLASS-244-132	c 24	N82-32417 *	US-PATENT-CLASS-244-161	c 37	N76-22540 *
US-PATENT-CLASS-244-1A	c 33	N77-10429 *	US-PATENT-CLASS-244-133	c 31	N90-19427 *	US-PATENT-CLASS-244-161	c 37	N77-23483 *
US-PATENT-CLASS-244-1R	c 34	N79-31523 *	US-PATENT-CLASS-244-134-D	c 33	N86-20671 *	US-PATENT-CLASS-244-161	c 15	N78-25119 *
US-PATENT-CLASS-244-1R	c 35	N90-22769 *	US-PATENT-CLASS-244-134-D	c 33	N87-28833 *	US-PATENT-CLASS-244-161	c 37	N80-14398 *
US-PATENT-CLASS-244-1SA	c 21	N72-21624 *	US-PATENT-CLASS-244-134-F	c 35	N88-29149 *	US-PATENT-CLASS-244-161	c 37	N81-14920 *
US-PATENT-CLASS-244-1SA	c 21	N72-25595 *	US-PATENT-CLASS-244-135R	c 34	N76-17317 *	US-PATENT-CLASS-244-161	c 37	N81-27519 *
US-PATENT-CLASS-244-1SA	c 03	N73-20039 *	US-PATENT-CLASS-244-137P	c 20	N80-10278 *	US-PATENT-CLASS-244-161	c 18	N83-29303 *
US-PATENT-CLASS-244-1SA	c 15	N73-25513 *	US-PATENT-CLASS-244-135	c 31	N70-42015 *	US-PATENT-CLASS-244-161	c 18	N84-22605 *
US-PATENT-CLASS-244-1SA	c 21	N73-30640 *	US-PATENT-CLASS-244-135	c 15	N73-12486 *	US-PATENT-CLASS-244-161	c 16	N86-26352 *
US-PATENT-CLASS-244-1SA	c 19	N74-15089 *	US-PATENT-CLASS-244-135	c 14	N73-27378 *	US-PATENT-CLASS-244-161	c 37	N87-25582 *
US-PATENT-CLASS-244-1SA	c 35	N74-28097 *	US-PATENT-CLASS-244-137.2	c 18	N91-14374 *	US-PATENT-CLASS-244-161	c 18	N89-25266 *
US-PATENT-CLASS-244-1SB	c 15	N73-12486 *	US-PATENT-CLASS-244-137.2	c 03	N91-15142 *	US-PATENT-CLASS-244-161	c 18	N89-28553 *
US-PATENT-CLASS-244-1SC	c 31	N73-32750 *	US-PATENT-CLASS-244-137.2	c 03	N91-31113 *	US-PATENT-CLASS-244-161	c 18	N90-20126 *
US-PATENT-CLASS-244-1SC	c 34	N75-12222 *	US-PATENT-CLASS-244-137.4	c 05	N90-20079 *	US-PATENT-CLASS-244-161	c 16	N90-22584 *
US-PATENT-CLASS-244-1SD	c 31	N73-26876 *	US-PATENT-CLASS-244-137.4	c 05	N91-27156 *	US-PATENT-CLASS-244-161	c 18	N91-14374 *
US-PATENT-CLASS-244-1SD	c 37	N74-27903 *	US-PATENT-CLASS-244-137-A	c 05	N87-14314 *	US-PATENT-CLASS-244-161	c 37	N92-28727 *
US-PATENT-CLASS-244-1SD	c 15	N77-10112 *	US-PATENT-CLASS-244-137P	c 31	N73-26876 *	US-PATENT-CLASS-244-161	c 18	N92-28750 *
US-PATENT-CLASS-244-1SS	c 11	N73-13257 *	US-PATENT-CLASS-244-137P	c 37	N76-22540 *	US-PATENT-CLASS-244-161	c 37	N92-33018 *
US-PATENT-CLASS-244-1SS	c 03	N73-20039 *	US-PATENT-CLASS-244-137P	c 01	N83-35992 *	US-PATENT-CLASS-244-162	c 18	N75-19329 *
US-PATENT-CLASS-244-1SS	c 14	N73-27378 *	US-PATENT-CLASS-244-137R	c 08	N82-32373 *	US-PATENT-CLASS-244-162	c 18	N76-17185 *
US-PATENT-CLASS-244-1SS	c 31	N73-30829 *	US-PATENT-CLASS-244-138A	c 35	N90-22769 *	US-PATENT-CLASS-244-162	c 03	N91-15142 *
US-PATENT-CLASS-244-1SS	c 31	N73-32750 *	US-PATENT-CLASS-244-138	c 01	N69-39981 *	US-PATENT-CLASS-244-162	c 18	N92-21999 *
US-PATENT-CLASS-244-1SS	c 33	N73-32818 *	US-PATENT-CLASS-244-138	c 02	N70-41630 *	US-PATENT-CLASS-244-163	c 37	N76-19437 *
US-PATENT-CLASS-244-1SS	c 18	N74-22136 *	US-PATENT-CLASS-244-138	c 31	N71-16085 *	US-PATENT-CLASS-244-163	c 24	N79-25142 *
US-PATENT-CLASS-244-1SS	c 18	N74-27397 *	US-PATENT-CLASS-244-138	c 31	N71-25434 *	US-PATENT-CLASS-244-163	c 34	N79-31523 *
US-PATENT-CLASS-244-1SS	c 73	N75-30876 *	US-PATENT-CLASS-244-138	c 31	N71-28851 *	US-PATENT-CLASS-244-163	c 05	N81-26114 *
US-PATENT-CLASS-244-100	c 15	N70-34850 *	US-PATENT-CLASS-244-139	c 31	N73-13898 *	US-PATENT-CLASS-244-163	c 37	N82-16408 *
US-PATENT-CLASS-244-100	c 31	N70-36654 *	US-PATENT-CLASS-244-139	c 02	N76-16014 *	US-PATENT-CLASS-244-163	c 27	N82-29456 *
US-PATENT-CLASS-244-100	c 31	N70-36845 *	US-PATENT-CLASS-244-139	c 05	N85-21147 *	US-PATENT-CLASS-244-163	c 35	N85-29214 *
US-PATENT-CLASS-244-100	c 02	N70-41589 *	US-PATENT-CLASS-244-139	c 08	N85-35200 *	US-PATENT-CLASS-244-163	c 31	N91-15424 *
US-PATENT-CLASS-244-103R	c 37	N81-24443 *	US-PATENT-CLASS-244-139	c 02	N91-27139 *	US-PATENT-CLASS-244-163	c 54	N91-31803 *
US-PATENT-CLASS-244-103	c 02	N70-36825 *	US-PATENT-CLASS-244-13	c 01	N71-23497 *	US-PATENT-CLASS-244-163	c 18	N92-21999 *
US-PATENT-CLASS-244-110B	c 07	N82-26293 *	US-PATENT-CLASS-244-13	c 02	N73-26005 *	US-PATENT-CLASS-244-164	c 35	N89-15379 *
US-PATENT-CLASS-244-110C	c 37	N82-18601 *	US-PATENT-CLASS-244-13	c 05	N75-25914 *	US-PATENT-CLASS-244-164	c 34	N91-25380 *
US-PATENT-CLASS-244-113	c 02	N70-37939 *	US-PATENT-CLASS-244-13	c 05	N84-12154 *	US-PATENT-CLASS-244-165	c 15	N76-14158 *
US-PATENT-CLASS-244-113	c 31	N71-25434 *	US-PATENT-CLASS-244-140	c 02	N70-38009 *	US-PATENT-CLASS-244-165	c 35	N77-20399 *
US-PATENT-CLASS-244-113	c 02	N77-10001 *	US-PATENT-CLASS-244-145	c 02	N74-10034 *	US-PATENT-CLASS-244-165	c 35	N80-21719 *
US-PATENT-CLASS-244-113	c 37	N82-16408 *	US-PATENT-CLASS-244-147	c 05	N85-21147 *	US-PATENT-CLASS-244-165	c 08	N88-23808 *
US-PATENT-CLASS-244-113	c 08	N85-35200 *	US-PATENT-CLASS-244-14	c 14	N70-33322 *	US-PATENT-CLASS-244-165	c 35	N89-15379 *
US-PATENT-CLASS-244-113	c 02	N91-27139 *	US-PATENT-CLASS-244-14	c 18	N91-21222 *	US-PATENT-CLASS-244-165	c 34	N91-25380 *
US-PATENT-CLASS-244-114R	c 04	N82-16059 *	US-PATENT-CLASS-244-15.5	c 31	N72-18859 *	US-PATENT-CLASS-244-167	c 15	N78-25119 *
US-PATENT-CLASS-244-114	c 21	N72-22619 *	US-PATENT-CLASS-244-150	c 15	N71-24600 *	US-PATENT-CLASS-244-168	c 04	N82-23231 *
US-PATENT-CLASS-244-115	c 18	N83-29303 *	US-PATENT-CLASS-244-151R	c 33	N74-22865 *	US-PATENT-CLASS-244-169	c 15	N77-10113 *
US-PATENT-CLASS-244-117-A	c 24	N88-18628 *	US-PATENT-CLASS-244-152	c 02	N70-36804 *	US-PATENT-CLASS-244-169	c 18	N83-28064 *
US-PATENT-CLASS-244-117A	c 33	N73-25952 *	US-PATENT-CLASS-244-155	c 30	N73-12884 *	US-PATENT-CLASS-244-169	c 20	N86-26368 *
US-PATENT-CLASS-244-117A	c 34	N76-17317 *	US-PATENT-CLASS-244-155	c 31	N73-14854 *	US-PATENT-CLASS-244-16	c 02	N70-41863 *
US-PATENT-CLASS-244-117A	c 37	N76-19437 *	US-PATENT-CLASS-244-158-R	c 20	N86-26368 *	US-PATENT-CLASS-244-17.13	c 02	N73-19004 *
US-PATENT-CLASS-244-117A	c 34	N77-18382 *	US-PATENT-CLASS-244-158-A	c 37	N85-30335 *	US-PATENT-CLASS-244-17.13	c 08	N79-23097 *
US-PATENT-CLASS-244-117A	c 05	N81-26114 *	US-PATENT-CLASS-244-158-A	c 05	N86-19310 *	US-PATENT-CLASS-244-17.19	c 08	N88-23809 *
US-PATENT-CLASS-244-117A	c 27	N84-27886 *	US-PATENT-CLASS-244-158-A	c 24	N88-18628 *	US-PATENT-CLASS-244-17.25	c 05	N81-19087 *
US-PATENT-CLASS-244-117	c 31	N70-33242 *	US-PATENT-CLASS-244-158-R	c 05	N86-19310 *	US-PATENT-CLASS-244-17.27	c 05	N87-14314 *
US-PATENT-CLASS-244-117	c 33	N72-17947 *	US-PATENT-CLASS-244-158-R	c 18	N86-20469 *	US-PATENT-CLASS-244-170	c 35	N80-21719 *
US-PATENT-CLASS-244-118.1	c 08	N82-32373 *	US-PATENT-CLASS-244-158A	c 27	N82-24339 *	US-PATENT-CLASS-244-170	c 18	N83-28064 *
US-PATENT-CLASS-244-118.1	c 18	N85-29991 *	US-PATENT-CLASS-244-158A	c 27	N82-29456 *	US-PATENT-CLASS-244-171	c 15	N77-10113 *
US-PATENT-CLASS-244-118.1	c 37	N85-34401 *	US-PATENT-CLASS-244-158A	c 24	N82-32417 *	US-PATENT-CLASS-244-171	c 35	N77-20399 *
US-PATENT-CLASS-244-118.1	c 05	N87-14314 *	US-PATENT-CLASS-244-158A	c 24	N83-13172 *	US-PATENT-CLASS-244-172	c 18	N76-17185 *
US-PATENT-CLASS-244-118.1	c 05	N91-27156 *	US-PATENT-CLASS-244-158A	c 16	N84-22601 *	US-PATENT-CLASS-244-172	c 16	N84-27784 *
US-PATENT-CLASS-244-119	c 02	N81-14968 *	US-PATENT-CLASS-244-158A	c 27	N84-27886 *	US-PATENT-CLASS-244-172	c 18	N84-27787 *
US-PATENT-CLASS-244-119	c 24	N82-24296 *	US-PATENT-CLASS-244-158A	c 24	N90-23480 *	US-PATENT-CLASS-244-172	c 05	N86-19310 *
US-PATENT-CLASS-244-119	c 24	N82-26384 *	US-PATENT-CLASS-244-158R	c 31	N81-25258 *	US-PATENT-CLASS-244-172	c 16	N90-22584 *
US-PATENT-CLASS-244-119	c 24	N84-11214 *	US-PATENT-CLASS-244-158R	c 16	N84-27784 *	US-PATENT-CLASS-244-172	c 18	N92-33013 *
US-PATENT-CLASS-244-119	c 05	N88-23765 *	US-PATENT-CLASS-244-158R	c 18	N85-29991 *	US-PATENT-CLASS-244-173	c 44	N75-32581 *
US-PATENT-CLASS-244-12.3	c 05	N88-28914 *	US-PATENT-CLASS-244-158R	c 37	N85-34401 *	US-PATENT-CLASS-244-173	c 37	N81-15364 *
US-PATENT-CLASS-244-12.4	c 05	N88-28914 *	US-PATENT-CLASS-244-158R	c 37	N87-17036 *	US-PATENT-CLASS-244-173	c 07	N83-20944 *
US-PATENT-CLASS-244-12.5	c 08	N81-19130 *	US-PATENT-CLASS-244-158R	c 18	N90-19278 *	US-PATENT-CLASS-244-173	c 37	N86-25789 *

US-PATENT-CLASS-244-175	c 04	N82-23231 *	US-PATENT-CLASS-244-23A	c 21	N72-25595 *	US-PATENT-CLASS-244-75R	c 02	N91-27139 *
US-PATENT-CLASS-244-181	c 08	N81-24106	US-PATENT-CLASS-244-23C	c 05	N82-26277 *	US-PATENT-CLASS-244-75R	c 05	N91-31140 *
US-PATENT-CLASS-244-181	c 08	N81-26152 *	US-PATENT-CLASS-244-23D	c 34	N76-18364	US-PATENT-CLASS-244-76-R	c 08	N87-20999 *
US-PATENT-CLASS-244-181	c 06	N86-27280 *	US-PATENT-CLASS-244-23A	c 08	N86-27288 *	US-PATENT-CLASS-244-76C	c 02	N73-26004 *
US-PATENT-CLASS-244-182	c 08	N81-26152 *	US-PATENT-CLASS-244-23	c 02	N71-11039 *	US-PATENT-CLASS-244-76	c 21	N70-34539 *
US-PATENT-CLASS-244-190	c 04	N82-23231 *	US-PATENT-CLASS-244-2	c 14	N81-26161 *	US-PATENT-CLASS-244-76	c 02	N71-13422 *
US-PATENT-CLASS-244-194	c 60	N82-29013 *	US-PATENT-CLASS-244-2	c 18	N84-27787 *	US-PATENT-CLASS-244-76	c 02	N71-20570 *
US-PATENT-CLASS-244-195	c 08	N79-23097 *	US-PATENT-CLASS-244-3.14	c 31	N71-17691 *	US-PATENT-CLASS-244-77A	c 04	N74-13420 *
US-PATENT-CLASS-244-195	c 08	N81-24106	US-PATENT-CLASS-244-3.16	c 19	N74-15089 *	US-PATENT-CLASS-244-77B	c 04	N74-13420 *
US-PATENT-CLASS-244-198	c 05	N92-21587 *	US-PATENT-CLASS-244-3.21	c 30	N72-17873 *	US-PATENT-CLASS-244-77D	c 02	N73-19004 *
US-PATENT-CLASS-244-199	c 07	N85-35194 *	US-PATENT-CLASS-244-3.21	c 15	N76-14158 *	US-PATENT-CLASS-244-77F	c 02	N73-26004 *
US-PATENT-CLASS-244-199	c 02	N88-14071 *	US-PATENT-CLASS-244-3.21	c 15	N77-10113 *	US-PATENT-CLASS-244-77G	c 02	N73-26004 *
US-PATENT-CLASS-244-199	c 05	N91-14345 *	US-PATENT-CLASS-244-3.21	c 35	N77-20399 *	US-PATENT-CLASS-244-77	c 32	N71-23971 *
US-PATENT-CLASS-244-199	c 05	N91-31140 *	US-PATENT-CLASS-244-3.22	c 31	N71-17629 *	US-PATENT-CLASS-244-78	c 08	N82-24205 *
US-PATENT-CLASS-244-1	c 31	N69-27499 *	US-PATENT-CLASS-244-3.22	c 28	N72-22769 *	US-PATENT-CLASS-244-78	c 05	N89-11738 *
US-PATENT-CLASS-244-1	c 03	N70-33343 *	US-PATENT-CLASS-244-3.22	c 20	N76-21275 *	US-PATENT-CLASS-244-79	c 04	N76-26175 *
US-PATENT-CLASS-244-1	c 33	N70-33344 *	US-PATENT-CLASS-244-31	c 02	N71-11037 *	US-PATENT-CLASS-244-82	c 05	N79-12061 *
US-PATENT-CLASS-244-1	c 03	N70-34157 *	US-PATENT-CLASS-244-31	c 31	N71-16081 *	US-PATENT-CLASS-244-83G	c 08	N79-23097 *
US-PATENT-CLASS-244-1	c 31	N70-34176 *	US-PATENT-CLASS-244-31	c 34	N74-23039 *	US-PATENT-CLASS-244-83R	c 05	N75-12930 *
US-PATENT-CLASS-244-1	c 21	N70-34295 *	US-PATENT-CLASS-244-327	c 08	N74-30421 *	US-PATENT-CLASS-244-83	c 21	N70-33279 *
US-PATENT-CLASS-244-1	c 31	N70-34296 *	US-PATENT-CLASS-244-32	c 02	N73-13008 *	US-PATENT-CLASS-244-83	c 15	N71-23255 *
US-PATENT-CLASS-244-1	c 21	N70-35395 *	US-PATENT-CLASS-244-34A	c 05	N82-26277 *	US-PATENT-CLASS-244-83	c 31	N71-33160 *
US-PATENT-CLASS-244-1	c 31	N70-36410 *	US-PATENT-CLASS-244-35-R	c 02	N89-14224 *	US-PATENT-CLASS-244-83	c 08	N74-10942 *
US-PATENT-CLASS-244-1	c 33	N70-36617 *	US-PATENT-CLASS-244-35A	c 02	N84-11136 *	US-PATENT-CLASS-244-87	c 08	N81-19130 *
US-PATENT-CLASS-244-1	c 21	N70-36943 *	US-PATENT-CLASS-244-35R	c 02	N76-22154 *	US-PATENT-CLASS-244-87	c 05	N91-31140 *
US-PATENT-CLASS-244-1	c 31	N70-37924 *	US-PATENT-CLASS-244-35R	c 02	N84-11136 *	US-PATENT-CLASS-244-88	c 05	N91-31140 *
US-PATENT-CLASS-244-1	c 31	N70-37938 *	US-PATENT-CLASS-244-35R	c 02	N84-28732 *	US-PATENT-CLASS-244-90R	c 08	N74-30421 *
US-PATENT-CLASS-244-1	c 31	N70-37986 *	US-PATENT-CLASS-244-35R	c 02	N87-16793 *	US-PATENT-CLASS-244-90R	c 05	N79-12061 *
US-PATENT-CLASS-244-1	c 31	N70-38676 *	US-PATENT-CLASS-244-35R	c 02	N92-28729 *	US-PATENT-CLASS-244-90R	c 08	N79-14108 *
US-PATENT-CLASS-244-1	c 30	N70-40016 *	US-PATENT-CLASS-244-35	c 01	N71-13410 *	US-PATENT-CLASS-244-90R	c 08	N85-19985 *
US-PATENT-CLASS-244-1	c 31	N70-41373 *	US-PATENT-CLASS-244-36	c 02	N92-28729 *	US-PATENT-CLASS-244-90R	c 05	N90-23390 *
US-PATENT-CLASS-244-1	c 31	N70-41588 *	US-PATENT-CLASS-244-40R	c 02	N76-22154 *	US-PATENT-CLASS-244-90	c 02	N71-27088 *
US-PATENT-CLASS-244-1	c 31	N70-41631 *	US-PATENT-CLASS-244-42CG	c 33	N77-10429 *	US-PATENT-CLASS-244-91	c 08	N74-30421 *
US-PATENT-CLASS-244-1	c 31	N70-41855 *	US-PATENT-CLASS-244-42DA	c 05	N75-25914 *	US-PATENT-CLASS-244-91	c 05	N84-12154 *
US-PATENT-CLASS-244-1	c 21	N70-41856 *	US-PATENT-CLASS-244-42	c 02	N70-42016 *	US-PATENT-CLASS-244-91	c 08	N88-23809 *
US-PATENT-CLASS-244-1	c 31	N70-42075 *	US-PATENT-CLASS-244-42	c 02	N71-26110 *	US-PATENT-CLASS-244-93	c 05	N82-26277 *
US-PATENT-CLASS-244-1	c 03	N71-11058 *	US-PATENT-CLASS-244-43	c 02	N70-33255 *	US-PATENT-CLASS-244-161	c 37	N87-22985 *
US-PATENT-CLASS-244-1	c 33	N71-14035 *	US-PATENT-CLASS-244-43	c 02	N71-11043 *	US-PATENT-CLASS-247-171	c 35	N75-23910 *
US-PATENT-CLASS-244-1	c 21	N71-14132 *	US-PATENT-CLASS-244-44	c 02	N71-11038 *	US-PATENT-CLASS-248-DIG-1	c 18	N89-28554 *
US-PATENT-CLASS-244-1	c 21	N71-14159 *	US-PATENT-CLASS-244-45-A	c 05	N88-28914 *	US-PATENT-CLASS-248-119	c 11	N70-35383 *
US-PATENT-CLASS-244-1	c 21	N71-15583 *	US-PATENT-CLASS-244-45A	c 05	N78-32086 *	US-PATENT-CLASS-248-14	c 15	N72-17454 *
US-PATENT-CLASS-244-1	c 31	N71-15663 *	US-PATENT-CLASS-244-45A	c 05	N90-23390 *	US-PATENT-CLASS-248-16	c 18	N74-27397 *
US-PATENT-CLASS-244-1	c 31	N71-15674 *	US-PATENT-CLASS-244-45R	c 05	N84-12154 *	US-PATENT-CLASS-248-178	c 15	N70-41310 *
US-PATENT-CLASS-244-1	c 31	N71-15676 *	US-PATENT-CLASS-244-45	c 02	N71-12243 *	US-PATENT-CLASS-248-178	c 37	N78-27425 *
US-PATENT-CLASS-244-1	c 02	N71-16087 *	US-PATENT-CLASS-244-46	c 02	N70-33266 *	US-PATENT-CLASS-248-181	c 37	N91-21543 *
US-PATENT-CLASS-244-1	c 31	N71-16222 *	US-PATENT-CLASS-244-46	c 02	N70-33286 *	US-PATENT-CLASS-248-183	c 14	N71-26627 *
US-PATENT-CLASS-244-1	c 31	N71-16345 *	US-PATENT-CLASS-244-46	c 02	N70-34178 *	US-PATENT-CLASS-248-183	c 15	N72-11386 *
US-PATENT-CLASS-244-1	c 31	N71-16346 *	US-PATENT-CLASS-244-46	c 02	N70-34858 *	US-PATENT-CLASS-248-186	c 37	N78-27425 *
US-PATENT-CLASS-244-1	c 31	N71-17679 *	US-PATENT-CLASS-244-46	c 31	N70-38010 *	US-PATENT-CLASS-248-188.4	c 15	N72-27484 *
US-PATENT-CLASS-244-1	c 15	N71-17693 *	US-PATENT-CLASS-244-46	c 02	N70-38011 *	US-PATENT-CLASS-248-188.9	c 31	N70-34159 *
US-PATENT-CLASS-244-1	c 31	N71-17729 *	US-PATENT-CLASS-244-46	c 02	N71-11041 *	US-PATENT-CLASS-248-18	c 14	N69-27486 *
US-PATENT-CLASS-244-1	c 15	N71-19214 *	US-PATENT-CLASS-244-46	c 02	N73-26005 *	US-PATENT-CLASS-248-18	c 15	N72-11391 *
US-PATENT-CLASS-244-1	c 03	N71-20273 *	US-PATENT-CLASS-244-46	c 05	N76-29217 *	US-PATENT-CLASS-248-20	c 15	N72-11391 *
US-PATENT-CLASS-244-1	c 31	N71-20396 *	US-PATENT-CLASS-244-46	c 05	N78-32086 *	US-PATENT-CLASS-248-222.1	c 37	N92-29092 *
US-PATENT-CLASS-244-1	c 31	N71-21064 *	US-PATENT-CLASS-244-46	c 08	N79-14108 *	US-PATENT-CLASS-248-228	c 37	N84-16560 *
US-PATENT-CLASS-244-1	c 14	N71-21082 *	US-PATENT-CLASS-244-46	c 05	N90-23390 *	US-PATENT-CLASS-248-229	c 37	N91-14617 *
US-PATENT-CLASS-244-1	c 21	N71-21708 *	US-PATENT-CLASS-244-48	c 05	N79-12061 *	US-PATENT-CLASS-248-22	c 19	N76-22284 *
US-PATENT-CLASS-244-1	c 31	N71-21881 *	US-PATENT-CLASS-244-48	c 05	N82-28279 *	US-PATENT-CLASS-248-230	c 37	N91-14617 *
US-PATENT-CLASS-244-1	c 33	N71-22792 *	US-PATENT-CLASS-244-49	c 43	N81-17499 *	US-PATENT-CLASS-248-23	c 18	N74-27397 *
US-PATENT-CLASS-244-1	c 31	N71-22968 *	US-PATENT-CLASS-244-4	c 05	N69-21380 *	US-PATENT-CLASS-248-251	c 37	N92-29092 *
US-PATENT-CLASS-244-1	c 31	N71-22969 *	US-PATENT-CLASS-244-4	c 05	N71-12336 *	US-PATENT-CLASS-248-278	c 15	N72-11386 *
US-PATENT-CLASS-244-1	c 31	N71-23009 *	US-PATENT-CLASS-244-4	c 28	N71-27585 *	US-PATENT-CLASS-248-27	c 15	N71-20813 *
US-PATENT-CLASS-244-1	c 14	N71-23040 *	US-PATENT-CLASS-244-50	c 02	N70-34160 *	US-PATENT-CLASS-248-316.4	c 37	N87-21333 *
US-PATENT-CLASS-244-1	c 31	N71-23912 *	US-PATENT-CLASS-244-51	c 02	N70-34856 *	US-PATENT-CLASS-248-317	c 11	N69-27466 *
US-PATENT-CLASS-244-1	c 31	N71-24315 *	US-PATENT-CLASS-244-52	c 08	N81-19130 *	US-PATENT-CLASS-248-346	c 14	N70-39898 *
US-PATENT-CLASS-244-1	c 15	N71-24600 *	US-PATENT-CLASS-244-53A	c 07	N78-18066 *	US-PATENT-CLASS-248-358R	c 37	N75-18573 *
US-PATENT-CLASS-244-1	c 05	N71-24728 *	US-PATENT-CLASS-244-53B	c 02	N74-20646 *	US-PATENT-CLASS-248-358R	c 19	N76-22284 *
US-PATENT-CLASS-244-1	c 33	N71-25353 *	US-PATENT-CLASS-244-53B	c 07	N75-24736 *	US-PATENT-CLASS-248-358	c 15	N70-40156 *
US-PATENT-CLASS-244-1	c 31	N71-25434 *	US-PATENT-CLASS-244-53B	c 07	N77-18154 *	US-PATENT-CLASS-248-358	c 23	N71-15673 *
US-PATENT-CLASS-244-1	c 31	N71-26537 *	US-PATENT-CLASS-244-53B	c 05	N79-24976 *	US-PATENT-CLASS-248-358	c 15	N71-24694 *
US-PATENT-CLASS-244-1	c 15	N71-26611 *	US-PATENT-CLASS-244-53B	c 85	N82-33288 *	US-PATENT-CLASS-248-363	c 37	N78-17383 *
US-PATENT-CLASS-244-1	c 28	N71-27095 *	US-PATENT-CLASS-244-53R	c 05	N84-12154 *	US-PATENT-CLASS-248-360	c 15	N71-17649 *
US-PATENT-CLASS-244-1	c 21	N71-27324 *	US-PATENT-CLASS-244-53	c 28	N71-15563 *	US-PATENT-CLASS-248-361	c 05	N71-28619 *
US-PATENT-CLASS-244-1	c 33	N71-28903 *	US-PATENT-CLASS-244-54	c 07	N78-18066 *	US-PATENT-CLASS-248-362	c 37	N76-21554 *
US-PATENT-CLASS-244-1	c 15	N71-28936 *	US-PATENT-CLASS-244-54	c 07	N79-14096 *	US-PATENT-CLASS-248-363	c 37	N76-21554 *
US-PATENT-CLASS-244-1	c 31	N71-29050 *	US-PATENT-CLASS-244-54	c 05	N90-20078 *	US-PATENT-CLASS-248-425	c 37	N82-21587 *
US-PATENT-CLASS-244-1	c 31	N71-33160 *	US-PATENT-CLASS-244-55	c 02	N73-26005 *	US-PATENT-CLASS-248-453	c 37	N92-33616 *
US-PATENT-CLASS-244-200	c 02	N87-16793 *	US-PATENT-CLASS-244-55	c 05	N75-25914 *	US-PATENT-CLASS-248-455	c 37	N92-33616 *
US-PATENT-CLASS-244-200	c 02	N88-14071 *	US-PATENT-CLASS-244-55	c 05	N84-12154 *	US-PATENT-CLASS-248-463	c 37	N92-33616 *
US-PATENT-CLASS-244-200	c 05	N92-21587 *	US-PATENT-CLASS-244-55	c 07	N85-35194 *	US-PATENT-CLASS-248-487	c 15	N72-11386 *
US-PATENT-CLASS-244-203	c 34	N91-14562 *	US-PATENT-CLASS-244-55	c 07	N87-16828 *	US-PATENT-CLASS-248-503	c 18	N85-29991 *
US-PATENT-CLASS-244-204	c 02	N87-16793 *	US-PATENT-CLASS-244-55	c 05	N88-28914 *	US-PATENT-CLASS-248-548	c 37	N88-23982 *
US-PATENT-CLASS-244-204	c 34	N91-14562 *	US-PATENT-CLASS-244-55	c 05	N90-20078 *	US-PATENT-CLASS-248-550	c 37	N85-34401 *
US-PATENT-CLASS-244-207	c 05	N88-28914 *	US-PATENT-CLASS-244-57	c 15	N71-26611 *	US-PATENT-CLASS-248-550	c 37	N87-21333 *
US-PATENT-CLASS-244-212	c 05	N84-22551 *	US-PATENT-CLASS-244-58	c 05	N91-14345 *	US-PATENT-CLASS-248-555	c 37	N92-34173 *
US-PATENT-CLASS-244-212	c 05	N92-21587 *	US-PATENT-CLASS-244-63	c 09	N77-19076 *	US-PATENT-CLASS-248-555	c 18	N85-29991 *
US-PATENT-CLASS-244-213	c 08	N82-24205 *	US-PATENT-CLASS-244-63	c 14	N81-26161 *	US-PATENT-CLASS-248-593	c 37	N91-21541 *
US-PATENT-CLASS-244-214	c 08	N85-19985 *	US-PATENT-CLASS-244-63	c 16	N84-27787 *	US-PATENT-CLASS-248-604	c 37	N91-21541 *
US-PATENT-CLASS-244-215	c 05	N84-22551 *	US-PATENT-CLASS-244-63	c 18	N84-27787 *	US-PATENT-CLASS-248-608	c 37	N88-23982 *
US-PATENT-CLASS-244-215	c 05	N92-21587 *	US-PATENT-CLASS-244-63	c 14	N92-15081 *	US-PATENT-CLASS-248-636	c 35	N83-32026 *
US-PATENT-CLASS-244-216	c 05	N84-22551 *	US-PATENT-CLASS-244-75-R	c 08	N85-35200 *	US-PATENT-CLASS-248-638	c 35	N83-32026 *
US-PATENT-CLASS-244-217	c 37	N82-16408 *	US-PATENT-CLASS-244-75R	c 05	N89-11738 *	US-PATENT-CLASS-248-638	c 05	N87-14314 *
US-PATENT-CLASS-244-218	c 05	N78-32086 *	US-PATENT-CLASS-244-75A	c 02	N73-26004 *	US-PATENT-CLASS-248-650	c 37	N91-21543 *
US-PATENT-CLASS-244-218	c 08	N79-14108 *	US-PATENT-CLASS-244-75R	c 05	N75-12930 *	US-PATENT-CLASS-248-65	c 33	N92-29153 *
US-PATENT-CLASS-244-219	c 05	N84-22551 *	US-PATENT-CLASS-244-75R	c 05	N85-21147 *	US-PATENT-CLASS-248-677	c 37	N91-21543 *
US-PATENT-CLASS-244-226	c 08	N82-24205 *	US-PATENT-CLASS-244-75R	c 05	N90-23390 *	US-PATENT-CLASS-248-68.1	c 33	N92-29153 *

US-PATENT-CLASS-248	c 25	N79-28253 *	US-PATENT-CLASS-250-216	c 74	N79-34011 *	US-PATENT-CLASS-250-296	c 35	N84-28016 *
US-PATENT-CLASS-249-127	c 31	N90-21216 *	US-PATENT-CLASS-250-216	c 74	N82-24072 *	US-PATENT-CLASS-250-298	c 35	N77-14406 *
US-PATENT-CLASS-249-144	c 31	N75-13111 *	US-PATENT-CLASS-250-216	c 74	N89-14077 *	US-PATENT-CLASS-250-304	c 25	N74-26947 *
US-PATENT-CLASS-249-145	c 31	N74-32920 *	US-PATENT-CLASS-250-216	c 74	N92-33028 *	US-PATENT-CLASS-250-305	c 72	N84-28575 *
US-PATENT-CLASS-249-145	c 31	N75-13111 *	US-PATENT-CLASS-250-217F	c 14	N73-16484 *	US-PATENT-CLASS-250-305	c 35	N91-14587 *
US-PATENT-CLASS-249-184	c 31	N74-32920 *	US-PATENT-CLASS-250-217R	c 14	N73-19419 *	US-PATENT-CLASS-250-306	c 72	N91-27936 *
US-PATENT-CLASS-249-59	c 31	N75-13111 *	US-PATENT-CLASS-250-217SS	c 09	N73-14214 *	US-PATENT-CLASS-250-307	c 25	N80-20334 *
US-PATENT-CLASS-249-83	c 31	N74-32920 *	US-PATENT-CLASS-250-217SS	c 36	N74-15145 *	US-PATENT-CLASS-250-307	c 72	N91-27936 *
US-PATENT-CLASS-249-95	c 31	N74-32920 *	US-PATENT-CLASS-250-217	c 14	N69-39896 *	US-PATENT-CLASS-250-308	c 25	N80-20334 *
US-PATENT-CLASS-25-156	c 15	N71-16076 *	US-PATENT-CLASS-250-217	c 14	N73-16483 *	US-PATENT-CLASS-250-310	c 35	N78-10429 *
US-PATENT-CLASS-250-105	c 14	N70-40240 *	US-PATENT-CLASS-250-217	c 36	N74-13205 *	US-PATENT-CLASS-250-310	c 33	N80-14332 *
US-PATENT-CLASS-250-105	c 14	N73-30389 *	US-PATENT-CLASS-250-218	c 14	N71-22996 *	US-PATENT-CLASS-250-310	c 35	N90-20351 *
US-PATENT-CLASS-250-199	c 16	N69-27491 *	US-PATENT-CLASS-250-218	c 14	N71-28994 *	US-PATENT-CLASS-250-311	c 33	N83-18996 *
US-PATENT-CLASS-250-199	c 07	N71-12389 *	US-PATENT-CLASS-250-218	c 74	N78-33913 *	US-PATENT-CLASS-250-320	c 74	N78-15880 *
US-PATENT-CLASS-250-199	c 16	N71-22895 *	US-PATENT-CLASS-250-219DF	c 91	N74-13130 *	US-PATENT-CLASS-250-322	c 35	N78-15461 *
US-PATENT-CLASS-250-199	c 16	N71-25914 *	US-PATENT-CLASS-250-219TH	c 26	N73-26751 *	US-PATENT-CLASS-250-327.2	c 74	N91-14835 *
US-PATENT-CLASS-250-199	c 16	N71-27183 *	US-PATENT-CLASS-250-219	c 14	N71-28993 *	US-PATENT-CLASS-250-330	c 44	N82-32841 *
US-PATENT-CLASS-250-199	c 16	N73-16536 *	US-PATENT-CLASS-250-221	c 33	N82-28545 *	US-PATENT-CLASS-250-332	c 35	N75-19613 *
US-PATENT-CLASS-250-199	c 07	N73-26119 *	US-PATENT-CLASS-250-221	c 74	N85-22139 *	US-PATENT-CLASS-250-332	c 31	N78-25256 *
US-PATENT-CLASS-250-199	c 74	N76-18913 *	US-PATENT-CLASS-250-225	c 14	N71-24864 *	US-PATENT-CLASS-250-332	c 35	N82-31659 *
US-PATENT-CLASS-250-199	c 74	N76-30053 *	US-PATENT-CLASS-250-225	c 14	N72-27409 *	US-PATENT-CLASS-250-332	c 74	N83-19597 *
US-PATENT-CLASS-250-199	c 74	N77-26942 *	US-PATENT-CLASS-250-225	c 32	N86-20647 *	US-PATENT-CLASS-250-332	c 74	N84-28590 *
US-PATENT-CLASS-250-199	c 32	N77-28346 *	US-PATENT-CLASS-250-226	c 14	N72-25409 *	US-PATENT-CLASS-250-335	c 34	N76-18374 *
US-PATENT-CLASS-250-199	c 60	N77-32731 *	US-PATENT-CLASS-250-226	c 43	N79-17288 *	US-PATENT-CLASS-250-336.1	c 72	N86-33127 *
US-PATENT-CLASS-250-199	c 74	N78-14889 *	US-PATENT-CLASS-250-226	c 74	N82-30071 *	US-PATENT-CLASS-250-336	c 14	N73-28488 *
US-PATENT-CLASS-250-201.9	c 74	N92-29122 *	US-PATENT-CLASS-250-227.21	c 74	N92-33017 *	US-PATENT-CLASS-250-336	c 35	N76-15433 *
US-PATENT-CLASS-250-201	c 14	N70-40238 *	US-PATENT-CLASS-250-227	c 14	N71-22991 *	US-PATENT-CLASS-250-336	c 33	N77-27473 *
US-PATENT-CLASS-250-201	c 35	N75-15014 *	US-PATENT-CLASS-250-227	c 14	N71-23240 *	US-PATENT-CLASS-250-336	c 35	N78-13400 *
US-PATENT-CLASS-250-201	c 74	N78-17866 *	US-PATENT-CLASS-250-227	c 60	N77-14751 *	US-PATENT-CLASS-250-338.1	c 35	N91-14588 *
US-PATENT-CLASS-250-203R	c 14	N72-27409 *	US-PATENT-CLASS-250-227	c 74	N78-33913 *	US-PATENT-CLASS-250-338.2	c 35	N91-14588 *
US-PATENT-CLASS-250-203R	c 14	N73-25462 *	US-PATENT-CLASS-250-227	c 74	N83-19597 *	US-PATENT-CLASS-250-338	c 35	N74-18088 *
US-PATENT-CLASS-250-203R	c 14	N73-28490 *	US-PATENT-CLASS-250-227	c 74	N84-11921 *	US-PATENT-CLASS-250-338	c 35	N77-10493 *
US-PATENT-CLASS-250-203R	c 21	N73-30640 *	US-PATENT-CLASS-250-227	c 74	N91-21871 *	US-PATENT-CLASS-250-338	c 47	N77-10753 *
US-PATENT-CLASS-250-203R	c 19	N74-15089 *	US-PATENT-CLASS-250-228	c 74	N86-26190 *	US-PATENT-CLASS-250-338	c 35	N80-26635 *
US-PATENT-CLASS-250-203R	c 89	N74-30886 *	US-PATENT-CLASS-250-229	c 08	N73-30135 *	US-PATENT-CLASS-250-338	c 35	N83-21311 *
US-PATENT-CLASS-250-203R	c 35	N77-20401 *	US-PATENT-CLASS-250-229	c 74	N90-22383 *	US-PATENT-CLASS-250-338	c 74	N84-28590 *
US-PATENT-CLASS-250-203R	c 74	N77-22951 *	US-PATENT-CLASS-250-231.14	c 74	N92-29133 *	US-PATENT-CLASS-250-338	c 72	N86-33127 *
US-PATENT-CLASS-250-203R	c 44	N81-24520 *	US-PATENT-CLASS-250-231.19	c 74	N92-33017 *	US-PATENT-CLASS-250-338	c 76	N87-13313 *
US-PATENT-CLASS-250-203R	c 32	N83-18975 *	US-PATENT-CLASS-250-231-GY	c 74	N87-23259 *	US-PATENT-CLASS-250-339	c 35	N77-10493 *
US-PATENT-CLASS-250-203R	c 47	N83-32232 *	US-PATENT-CLASS-250-231R	c 74	N82-30071 *	US-PATENT-CLASS-250-339	c 47	N77-10753 *
US-PATENT-CLASS-250-203R	c 44	N88-14492 *	US-PATENT-CLASS-250-231SE	c 74	N74-21304 *	US-PATENT-CLASS-250-339	c 35	N84-33766 *
US-PATENT-CLASS-250-203X	c 16	N72-13437 *	US-PATENT-CLASS-250-231SE	c 44	N80-18552 *	US-PATENT-CLASS-250-339	c 36	N85-21631 *
US-PATENT-CLASS-250-203	c 14	N69-27432 *	US-PATENT-CLASS-250-231	c 14	N73-20475 *	US-PATENT-CLASS-250-339	c 36	N85-29264 *
US-PATENT-CLASS-250-203	c 14	N69-27485 *	US-PATENT-CLASS-250-232	c 23	N71-21821 *	US-PATENT-CLASS-250-339	c 36	N87-28006 *
US-PATENT-CLASS-250-203	c 07	N69-39736 *	US-PATENT-CLASS-250-233	c 23	N71-16100 *	US-PATENT-CLASS-250-340	c 35	N76-29551 *
US-PATENT-CLASS-250-203	c 14	N70-34158 *	US-PATENT-CLASS-250-234	c 03	N73-20040 *	US-PATENT-CLASS-250-340	c 74	N83-19597 *
US-PATENT-CLASS-250-203	c 21	N70-35089 *	US-PATENT-CLASS-250-235	c 14	N72-11364 *	US-PATENT-CLASS-250-340	c 72	N86-33127 *
US-PATENT-CLASS-250-203	c 14	N70-40239 *	US-PATENT-CLASS-250-235	c 43	N82-13465 *	US-PATENT-CLASS-250-341	c 32	N87-21206 *
US-PATENT-CLASS-250-203	c 21	N71-10678 *	US-PATENT-CLASS-250-235	c 74	N82-24072 *	US-PATENT-CLASS-250-343	c 35	N74-11284 *
US-PATENT-CLASS-250-203	c 21	N71-10771 *	US-PATENT-CLASS-250-236	c 21	N73-30640 *	US-PATENT-CLASS-250-343	c 25	N74-26947 *
US-PATENT-CLASS-250-203	c 21	N71-15642 *	US-PATENT-CLASS-250-236	c 43	N82-13465 *	US-PATENT-CLASS-250-343	c 45	N75-27585 *
US-PATENT-CLASS-250-203	c 14	N71-19568 *	US-PATENT-CLASS-250-237G	c 74	N79-20856 *	US-PATENT-CLASS-250-343	c 74	N76-20958 *
US-PATENT-CLASS-250-203	c 14	N71-23269 *	US-PATENT-CLASS-250-237R	c 08	N73-30135 *	US-PATENT-CLASS-250-343	c 25	N76-22323 *
US-PATENT-CLASS-250-203	c 14	N71-23797 *	US-PATENT-CLASS-250-237R	c 19	N74-15089 *	US-PATENT-CLASS-250-343	c 35	N77-14411 *
US-PATENT-CLASS-250-203	c 14	N72-22444 *	US-PATENT-CLASS-250-237	c 14	N69-24331 *	US-PATENT-CLASS-250-343	c 35	N78-13400 *
US-PATENT-CLASS-250-203	c 14	N73-30393 *	US-PATENT-CLASS-250-238	c 33	N75-31332 *	US-PATENT-CLASS-250-343	c 25	N81-14015 *
US-PATENT-CLASS-250-203	c 35	N75-23910 *	US-PATENT-CLASS-250-238	c 32	N77-28346 *	US-PATENT-CLASS-250-343	c 35	N84-34705 *
US-PATENT-CLASS-250-204	c 36	N74-21091 *	US-PATENT-CLASS-250-238	c 37	N87-23982 *	US-PATENT-CLASS-250-343	c 36	N85-21631 *
US-PATENT-CLASS-250-205	c 14	N72-27411 *	US-PATENT-CLASS-250-239	c 08	N73-30135 *	US-PATENT-CLASS-250-343	c 36	N87-28006 *
US-PATENT-CLASS-250-205	c 09	N73-14214 *	US-PATENT-CLASS-250-239	c 74	N78-33913 *	US-PATENT-CLASS-250-344	c 25	N76-22323 *
US-PATENT-CLASS-250-205	c 36	N74-13205 *	US-PATENT-CLASS-250-251	c 35	N76-15431 *	US-PATENT-CLASS-250-344	c 74	N78-17867 *
US-PATENT-CLASS-250-206	c 10	N71-20782 *	US-PATENT-CLASS-250-251	c 35	N84-33767 *	US-PATENT-CLASS-250-345	c 45	N75-27585 *
US-PATENT-CLASS-250-207	c 14	N72-17328 *	US-PATENT-CLASS-250-251	c 72	N87-21661 *	US-PATENT-CLASS-250-347	c 35	N77-10493 *
US-PATENT-CLASS-250-207	c 14	N73-32317 *	US-PATENT-CLASS-250-251	c 72	N88-24253 *	US-PATENT-CLASS-250-347	c 47	N77-10753 *
US-PATENT-CLASS-250-207	c 33	N74-27682 *	US-PATENT-CLASS-250-252.1	c 35	N84-33767 *	US-PATENT-CLASS-250-347	c 74	N80-33210 *
US-PATENT-CLASS-250-208	c 14	N72-20379 *	US-PATENT-CLASS-250-252	c 72	N89-29169 *	US-PATENT-CLASS-250-350	c 25	N81-25159 *
US-PATENT-CLASS-250-209	c 07	N69-39980 *	US-PATENT-CLASS-250-253	c 43	N79-31706 *	US-PATENT-CLASS-250-350	c 74	N83-19597 *
US-PATENT-CLASS-250-209	c 20	N71-16340 *	US-PATENT-CLASS-250-272	c 74	N78-15880 *	US-PATENT-CLASS-250-351	c 35	N75-30502 *
US-PATENT-CLASS-250-209	c 10	N72-17173 *	US-PATENT-CLASS-250-272	c 43	N79-31706 *	US-PATENT-CLASS-250-351	c 35	N78-13400 *
US-PATENT-CLASS-250-209	c 14	N72-25409 *	US-PATENT-CLASS-250-277CH	c 76	N78-24950 *	US-PATENT-CLASS-250-351	c 74	N83-19597 *
US-PATENT-CLASS-250-209	c 14	N73-16483 *	US-PATENT-CLASS-250-277CH	c 74	N80-21140 *	US-PATENT-CLASS-250-351	c 35	N84-34705 *
US-PATENT-CLASS-250-209	c 14	N73-26432 *	US-PATENT-CLASS-250-280	c 76	N78-24950 *	US-PATENT-CLASS-250-352	c 31	N79-17029 *
US-PATENT-CLASS-250-209	c 14	N73-28490 *	US-PATENT-CLASS-250-280	c 74	N80-21140 *	US-PATENT-CLASS-250-352	c 34	N79-20336 *
US-PATENT-CLASS-250-209	c 21	N73-30640 *	US-PATENT-CLASS-250-281	c 35	N74-34857 *	US-PATENT-CLASS-250-352	c 35	N80-26635 *
US-PATENT-CLASS-250-209	c 44	N81-24520 *	US-PATENT-CLASS-250-281	c 35	N76-16393 *	US-PATENT-CLASS-250-352	c 74	N80-33210 *
US-PATENT-CLASS-250-211J	c 09	N72-17152 *	US-PATENT-CLASS-250-281	c 36	N77-26477 *	US-PATENT-CLASS-250-352	c 37	N87-23982 *
US-PATENT-CLASS-250-211J	c 09	N73-14214 *	US-PATENT-CLASS-250-281	c 72	N80-14877 *	US-PATENT-CLASS-250-353	c 35	N76-29551 *
US-PATENT-CLASS-250-211J	c 35	N74-15090 *	US-PATENT-CLASS-250-281	c 35	N91-14587 *	US-PATENT-CLASS-250-353	c 35	N80-26635 *
US-PATENT-CLASS-250-211K	c 74	N77-22951 *	US-PATENT-CLASS-250-282	c 36	N77-26477 *	US-PATENT-CLASS-250-353	c 74	N80-33210 *
US-PATENT-CLASS-250-211K	c 44	N80-18552 *	US-PATENT-CLASS-250-282	c 72	N80-14877 *	US-PATENT-CLASS-250-356.1	c 47	N84-28292 *
US-PATENT-CLASS-250-211K	c 08	N86-27288 *	US-PATENT-CLASS-250-282	c 35	N83-27184 *	US-PATENT-CLASS-250-356.1	c 35	N91-31608 *
US-PATENT-CLASS-250-211R	c 36	N75-19652 *	US-PATENT-CLASS-250-282	c 35	N91-14587 *	US-PATENT-CLASS-250-358.1	c 72	N91-27936 *
US-PATENT-CLASS-250-211R	c 35	N75-23910 *	US-PATENT-CLASS-250-283	c 36	N77-26477 *	US-PATENT-CLASS-250-359	c 37	N75-26372 *
US-PATENT-CLASS-250-212	c 03	N71-23354 *	US-PATENT-CLASS-250-286	c 35	N91-14587 *	US-PATENT-CLASS-250-360	c 35	N74-15091 *
US-PATENT-CLASS-250-212	c 03	N73-20040 *	US-PATENT-CLASS-250-287	c 35	N76-15431 *	US-PATENT-CLASS-250-361	c 35	N74-15091 *
US-PATENT-CLASS-250-212	c 09	N73-32109 *	US-PATENT-CLASS-250-287	c 35	N76-16393 *	US-PATENT-CLASS-250-363R	c 52	N77-14737 *
US-PATENT-CLASS-250-213VT	c 74	N78-18905 *	US-PATENT-CLASS-250-287	c 35	N91-14587 *	US-PATENT-CLASS-250-363R	c 74	N79-20857 *
US-PATENT-CLASS-250-214AL	c 74	N79-12890 *	US-PATENT-CLASS-250-288	c 35	N76-16393 *	US-PATENT-CLASS-250-363R	c 74	N84-11920 *
US-PATENT-CLASS-250-214A	c 33	N77-14335 *	US-PATENT-CLASS-250-288	c 35	N77-32456 *	US-PATENT-CLASS-250-363S	c 74	N84-11920 *
US-PATENT-CLASS-250-214R	c 14	N73-28490 *	US-PATENT-CLASS-250-288	c 35	N83-27184 *	US-PATENT-CLASS-250-363S	c 35	N85-30281 *
US-PATENT-CLASS-250-214R	c 74	N79-12890 *	US-PATENT-CLASS-250-288	c 72	N87-21660 *	US-PATENT-CLASS-250-367	c 35	N84-33765 *
US-PATENT-CLASS-250-214	c 14	N73-25462 *	US-PATENT-CLASS-250-288	c 35	N91-14587 *	US-PATENT-CLASS-250-368	c 74	N81-24900 *
US-PATENT-CLASS-250-214	c 14	N73-25462 *	US-PATENT-CLASS-250-289	c 35	N77-14406 *	US-PATENT-CLASS-250-368	c 74	N84-11920 *
US-PATENT-CLASS-250-214	c 35	N74-15090 *	US-PATENT-CLASS-250-290	c 35	N77-10492 *	US-PATENT-CLASS-250-369	c 35	N74-15091 *
US-PATENT-CLASS-250-214	c 33	N82-28545 *	US-PATENT-CLASS-250-291	c 35	N77-10492 *	US-PATENT-CLASS-250-369	c 35	N82-32659 *
US-PATENT-CLASS-250-215	c 14	N73-16483 *	US-PATENT-CLASS-250-295	c 35	N74-34857 *	US-PATENT-CLASS-250-369	c 35	N85-30281 *

US-PATENT-CLASS-250-370.12 .. c 35	N91-14588 *	US-PATENT-CLASS-250-49.5 c 14	N72-17328 *	US-PATENT-CLASS-250-84 c 14	N71-24809 *
US-PATENT-CLASS-250-370.13 .. c 35	N91-14588 *	US-PATENT-CLASS-250-491 c 35	N80-28686 *	US-PATENT-CLASS-251-118 c 15	N71-18580 *
US-PATENT-CLASS-250-370 c 35	N74-18088 *	US-PATENT-CLASS-250-492A c 33	N80-14332 *	US-PATENT-CLASS-251-11 c 15	N70-35407 *
US-PATENT-CLASS-250-370 c 33	N75-31332 *	US-PATENT-CLASS-250-492B c 25	N78-27226 *	US-PATENT-CLASS-251-120 c 37	N74-21065 *
US-PATENT-CLASS-250-370 c 35	N82-31659 *	US-PATENT-CLASS-250-492R c 25	N76-29379 *	US-PATENT-CLASS-251-121 c 15	N71-18580 *
US-PATENT-CLASS-250-370 c 44	N82-32841 *	US-PATENT-CLASS-250-492R c 28	N78-24365 *	US-PATENT-CLASS-251-122 c 15	N73-13462 *
US-PATENT-CLASS-250-370 c 76	N87-13313 *	US-PATENT-CLASS-250-492 c 35	N74-15091 *	US-PATENT-CLASS-251-122 c 37	N74-21065 *
US-PATENT-CLASS-250-371 c 35	N74-18088 *	US-PATENT-CLASS-250-492 c 37	N75-26372 *	US-PATENT-CLASS-251-127 c 12	N71-18615 *
US-PATENT-CLASS-250-372 c 19	N74-29410 *	US-PATENT-CLASS-250-493.1 c 35	N91-14588 *	US-PATENT-CLASS-251-127 c 44	N84-14583 *
US-PATENT-CLASS-250-372 c 24	N76-24363 *	US-PATENT-CLASS-250-493 c 73	N75-30876 *	US-PATENT-CLASS-251-129.15 .. c 37	N87-25573 *
US-PATENT-CLASS-250-372 c 33	N76-27473 *	US-PATENT-CLASS-250-495 c 74	N75-12732 *	US-PATENT-CLASS-251-129.15 .. c 34	N91-27504 *
US-PATENT-CLASS-250-372 c 35	N83-21311 *	US-PATENT-CLASS-250-496 c 73	N75-30876 *	US-PATENT-CLASS-251-129 c 15	N72-20442 *
US-PATENT-CLASS-250-372 c 35	N84-33767 *	US-PATENT-CLASS-250-498 c 52	N77-14737 *	US-PATENT-CLASS-251-138 c 37	N80-23654 *
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US-PATENT-CLASS-256-308.2	c 27	N86-20561 *	US-PATENT-CLASS-260-37EP	c 24	N78-24290 *	US-PATENT-CLASS-260-830S	c 15	N79-26100 *
US-PATENT-CLASS-256-59	c 37	N92-29092 *	US-PATENT-CLASS-260-37EP	c 24	N78-27180 *	US-PATENT-CLASS-260-85.5	c 06	N71-23500 *
US-PATENT-CLASS-259-DIG.18	c 35	N74-15093 *	US-PATENT-CLASS-260-37EP	c 15	N79-26100 *	US-PATENT-CLASS-260-858	c 27	N81-14076 *
US-PATENT-CLASS-259-4AC	c 37	N76-19436 *	US-PATENT-CLASS-260-37EP	c 27	N81-17260 *	US-PATENT-CLASS-260-877	c 06	N72-22107 *
US-PATENT-CLASS-259-4	c 15	N73-19458 *	US-PATENT-CLASS-260-37N	c 27	N79-28307 *	US-PATENT-CLASS-260-879	c 27	N76-16228 *
US-PATENT-CLASS-259-60	c 35	N74-15093 *	US-PATENT-CLASS-260-37	c 18	N71-25881 *	US-PATENT-CLASS-260-886	c 27	N81-14076 *
US-PATENT-CLASS-259-71	c 15	N71-21177 *	US-PATENT-CLASS-260-37	c 27	N81-24258 *	US-PATENT-CLASS-260-8900	c 27	N81-14076 *
US-PATENT-CLASS-259-72	c 37	N74-18123 *	US-PATENT-CLASS-260-386	c 25	N82-24312 *	US-PATENT-CLASS-260-895	c 27	N81-14076 *
US-PATENT-CLASS-259-98	c 35	N74-15126 *	US-PATENT-CLASS-260-386	c 23	N88-26404 *	US-PATENT-CLASS-260-898	c 27	N81-14076 *
US-PATENT-CLASS-259/4R	c 34	N77-24423 *	US-PATENT-CLASS-260-386	c 25	N90-23497 *	US-PATENT-CLASS-260-900	c 27	N76-16228 *
US-PATENT-CLASS-260.46.5E	c 27	N74-21156 *	US-PATENT-CLASS-260-389	c 25	N82-24312 *	US-PATENT-CLASS-260-901	c 27	N81-14076 *
US-PATENT-CLASS-260-DIG.15	c 27	N78-14164 *	US-PATENT-CLASS-260-389	c 23	N88-26404 *	US-PATENT-CLASS-260-92.1	c 06	N72-25150 *
US-PATENT-CLASS-260-DIG.24	c 27	N74-27037 *	US-PATENT-CLASS-260-395	c 23	N88-26404 *	US-PATENT-CLASS-260-92.1	c 06	N72-25152 *
US-PATENT-CLASS-260-DIG.24	c 27	N76-24405 *	US-PATENT-CLASS-260-395	c 25	N90-23497 *	US-PATENT-CLASS-260-92.1	c 27	N76-16228 *
US-PATENT-CLASS-260-DIG.29	c 27	N80-24438 *	US-PATENT-CLASS-260-396N	c 27	N74-27037 *	US-PATENT-CLASS-260-92.1	c 27	N76-24405 *
US-PATENT-CLASS-260-17.2	c 24	N80-26388 *	US-PATENT-CLASS-260-404.5	c 18	N71-15688 *	US-PATENT-CLASS-260-926	c 27	N80-10358 *
US-PATENT-CLASS-260-17.2	c 24	N81-13999 *	US-PATENT-CLASS-260-42.17	c 27	N78-17215 *	US-PATENT-CLASS-260-927-N	c 23	N86-19376 *
US-PATENT-CLASS-260-17.4UC	c 23	N81-29160 *	US-PATENT-CLASS-260-42.43	c 24	N78-27180 *	US-PATENT-CLASS-260-93.5A	c 06	N73-32029 *
US-PATENT-CLASS-260-17A	c 27	N81-14076 *	US-PATENT-CLASS-260-429	c 06	N71-28808 *	US-PATENT-CLASS-260-93.5S	c 06	N73-32029 *
US-PATENT-CLASS-260-18S	c 06	N72-25151 *	US-PATENT-CLASS-260-442	c 27	N79-28307 *	US-PATENT-CLASS-260-94.2M	c 06	N73-32029 *
US-PATENT-CLASS-260-2.1E	c 18	N72-22567 *	US-PATENT-CLASS-260-448.2D	c 06	N72-25151 *	US-PATENT-CLASS-260-94.2R	c 06	N73-32029 *
US-PATENT-CLASS-260-2.1E	c 27	N81-14076 *	US-PATENT-CLASS-260-448.2D	c 06	N73-20390 *	US-PATENT-CLASS-260-94.7R	c 06	N73-32029 *
US-PATENT-CLASS-260-2.1E	c 25	N81-19244 *	US-PATENT-CLASS-260-448.2N	c 37	N74-21058 *	US-PATENT-CLASS-260-94.8	c 27	N73-22710 *
US-PATENT-CLASS-260-2.1	c 25	N81-17187 *	US-PATENT-CLASS-260-448.2	c 06	N71-23230 *	US-PATENT-CLASS-260-959	c 27	N78-32256 *
US-PATENT-CLASS-260-2.2R	c 25	N81-17187 *	US-PATENT-CLASS-260-45.7R	c 24	N78-27180 *	US-PATENT-CLASS-260-96D	c 28	N81-15119 *
US-PATENT-CLASS-260-2.2R	c 25	N81-19244 *	US-PATENT-CLASS-260-45.7R	c 27	N82-16238 *	US-PATENT-CLASS-261-DIG.75	c 34	N77-24423 *
US-PATENT-CLASS-260-2.5AK	c 27	N76-15310 *	US-PATENT-CLASS-260-45.75W	c 24	N78-27180 *	US-PATENT-CLASS-261-118	c 31	N80-18231 *
US-PATENT-CLASS-260-2.5AK	c 24	N78-24290 *	US-PATENT-CLASS-260-45.7	c 27	N76-24405 *	US-PATENT-CLASS-261-123	c 34	N77-24423 *
US-PATENT-CLASS-260-2.5AM	c 27	N74-12812 *	US-PATENT-CLASS-260-45.85N	c 24	N78-27180 *	US-PATENT-CLASS-261-145	c 28	N72-22772 *
US-PATENT-CLASS-260-2.5AM	c 27	N77-31308 *	US-PATENT-CLASS-260-45.9R	c 24	N78-27180 *	US-PATENT-CLASS-261-28	c 07	N81-29129 *
US-PATENT-CLASS-260-2.5AP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5E	c 06	N72-25151 *	US-PATENT-CLASS-261-78A	c 35	N86-29174 *
US-PATENT-CLASS-260-2.5AY	c 27	N77-31308 *	US-PATENT-CLASS-260-46.5G	c 06	N72-25151 *	US-PATENT-CLASS-261-79A	c 54	N81-24724 *
US-PATENT-CLASS-260-2.5A	c 27	N77-31308 *	US-PATENT-CLASS-260-46.5P	c 06	N72-25151 *	US-PATENT-CLASS-261-83	c 51	N91-30667 *
US-PATENT-CLASS-260-2.5BE	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5R	c 06	N73-26100 *	US-PATENT-CLASS-263-48	c 15	N69-27483 *
US-PATENT-CLASS-260-2.5B	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5	c 06	N71-11237 *	US-PATENT-CLASS-264-DIG.36	c 18	N73-14584 *
US-PATENT-CLASS-260-2.5EP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5	c 06	N71-11240 *	US-PATENT-CLASS-264-DIG.44	c 15	N72-16329 *
US-PATENT-CLASS-260-2.5FP	c 06	N72-25147 *	US-PATENT-CLASS-260-46.55R	c 27	N81-24256 *	US-PATENT-CLASS-264-DIG.64	c 27	N88-23894 *
US-PATENT-CLASS-260-2.5FP	c 27	N74-27037 *	US-PATENT-CLASS-260-46.55R	c 27	N84-22744 *	US-PATENT-CLASS-264-DIG.65	c 27	N85-20124 *
US-PATENT-CLASS-260-2.5FP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5	c 27	N84-22744 *	US-PATENT-CLASS-264-DIG-59	c 27	N89-29539 *
US-PATENT-CLASS-260-2.5F	c 18	N73-13562 *	US-PATENT-CLASS-260-47CP	c 06	N73-27980 *	US-PATENT-CLASS-264-022	c 27	N90-21198 *
US-PATENT-CLASS-260-2.5L	c 27	N74-12814 *	US-PATENT-CLASS-260-47CP	c 23	N76-15268 *	US-PATENT-CLASS-264-102	c 15	N71-10672 *
US-PATENT-CLASS-260-2.5N	c 24	N78-15180 *	US-PATENT-CLASS-260-47CP	c 27	N78-31232 *	US-PATENT-CLASS-264-102	c 15	N73-12489 *
US-PATENT-CLASS-260-2.5N	c 27	N78-31232 *	US-PATENT-CLASS-260-47CP	c 27	N78-32261 *	US-PATENT-CLASS-264-102	c 31	N74-14133 *
US-PATENT-CLASS-260-2.5R	c 27	N74-27037 *	US-PATENT-CLASS-260-47UP	c 06	N73-32029 *	US-PATENT-CLASS-264-102	c 31	N74-18124 *
US-PATENT-CLASS-260-2.5R	c 24	N78-15180 *	US-PATENT-CLASS-260-47	c 06	N71-28620 *	US-PATENT-CLASS-264-102	c 37	N76-24575 *
US-PATENT-CLASS-260-2.5	c 06	N71-11242 *	US-PATENT-CLASS-260-47	c 06	N71-28807 *	US-PATENT-CLASS-264-102	c 15	N79-26100 *
US-PATENT-CLASS-260-2.5	c 06	N71-24739 *	US-PATENT-CLASS-260-485F	c 06	N73-30098 *	US-PATENT-CLASS-264-104	c 05	N72-25120 *
US-PATENT-CLASS-260-2.5	c 06	N71-25929 *	US-PATENT-CLASS-260-49	c 27	N78-32261 *	US-PATENT-CLASS-264-104	c 27	N81-24257 *
US-PATENT-CLASS-260-2.5	c 18	N71-26155 *	US-PATENT-CLASS-260-520	c 23	N75-30256 *	US-PATENT-CLASS-264-104	c 23	N81-29160 *
US-PATENT-CLASS-260-2.5	c 06	N72-25150 *	US-PATENT-CLASS-260-535H	c 06	N72-27144 *	US-PATENT-CLASS-264-104	c 25	N83-13188 *
US-PATENT-CLASS-260-2P	c 27	N78-32256 *	US-PATENT-CLASS-260-53	c 27	N79-28307 *	US-PATENT-CLASS-264-105	c 27	N81-24257 *
US-PATENT-CLASS-260-2R	c 37	N74-18126 *	US-PATENT-CLASS-260-544-D	c 27	N86-21675 *	US-PATENT-CLASS-264-111	c 17	N71-29137 *
US-PATENT-CLASS-260-2R	c 27	N74-27037 *	US-PATENT-CLASS-260-544-P	c 27	N87-14515 *	US-PATENT-CLASS-264-112	c 27	N85-20124 *
US-PATENT-CLASS-260-2R	c 27	N78-15276 *	US-PATENT-CLASS-260-544F	c 06	N72-20121 *	US-PATENT-CLASS-264-114	c 31	N90-19425 *
US-PATENT-CLASS-260-211.5	c 06	N72-25149 *	US-PATENT-CLASS-260-544P	c 27	N86-27450 *	US-PATENT-CLASS-264-118	c 24	N80-26388 *
US-PATENT-CLASS-260-240G	c 27	N78-32315 *	US-PATENT-CLASS-260-551P	c 27	N78-32256 *	US-PATENT-CLASS-264-118	c 24	N84-16262 *
US-PATENT-CLASS-260-245.75	c 27	N86-19455 *	US-PATENT-CLASS-260-566B	c 27	N76-32315 *	US-PATENT-CLASS-264-119	c 24	N80-26388 *
US-PATENT-CLASS-260-245.9	c 27	N86-19455 *	US-PATENT-CLASS-260-567.6M	c 06	N73-32029 *	US-PATENT-CLASS-264-11	c 27	N90-23566 *

US-PATENT-CLASS-264-120	c 27	N85-20124 *	US-PATENT-CLASS-264-35	c 44	N79-24432 *	US-PATENT-CLASS-277-105	c 37	N82-24490 *
US-PATENT-CLASS-264-124	c 24	N80-26388 *	US-PATENT-CLASS-264-36	c 15	N73-12489 *	US-PATENT-CLASS-277-116.6	c 37	N84-11497 *
US-PATENT-CLASS-264-129	c 37	N76-31524 *	US-PATENT-CLASS-264-36	c 32	N74-27612 *	US-PATENT-CLASS-277-124	c 37	N84-11497 *
US-PATENT-CLASS-264-12	c 31	N83-35176 *	US-PATENT-CLASS-264-3	c 28	N71-26779 *	US-PATENT-CLASS-277-134	c 37	N75-21631 *
US-PATENT-CLASS-264-12	c 31	N91-32240 *	US-PATENT-CLASS-264-40.1	c 27	N89-29539 *	US-PATENT-CLASS-277-134	c 07	N78-25090 *
US-PATENT-CLASS-264-130	c 27	N78-32262 *	US-PATENT-CLASS-264-40.1	c 27	N90-23544 *	US-PATENT-CLASS-277-135	c 37	N85-29284 *
US-PATENT-CLASS-264-135	c 37	N74-18126 *	US-PATENT-CLASS-264-40.4	c 35	N80-18357 *	US-PATENT-CLASS-277-13	c 15	N71-26294 *
US-PATENT-CLASS-264-136	c 37	N74-18126 *	US-PATENT-CLASS-264-40.5	c 27	N89-29539 *	US-PATENT-CLASS-277-153	c 37	N80-28711 *
US-PATENT-CLASS-264-136	c 24	N91-25200 *	US-PATENT-CLASS-264-40.6	c 27	N89-29539 *	US-PATENT-CLASS-277-153	c 37	N81-26447 *
US-PATENT-CLASS-264-137	c 27	N79-33316 *	US-PATENT-CLASS-264-40	c 15	N73-12489 *	US-PATENT-CLASS-277-157	c 37	N91-27560 *
US-PATENT-CLASS-264-137	c 27	N81-14078 *	US-PATENT-CLASS-264-41	c 25	N81-19244 *	US-PATENT-CLASS-277-158	c 37	N90-23751 *
US-PATENT-CLASS-264-137	c 27	N81-29229 *	US-PATENT-CLASS-264-41	c 51	N84-28361 *	US-PATENT-CLASS-277-164	c 37	N84-11497 *
US-PATENT-CLASS-264-137	c 27	N83-34041 *	US-PATENT-CLASS-264-43	c 27	N90-23566 *	US-PATENT-CLASS-277-177	c 37	N84-11497 *
US-PATENT-CLASS-264-137	c 27	N85-20124 *	US-PATENT-CLASS-264-453	c 25	N82-21268 *	US-PATENT-CLASS-277-181	c 37	N81-15363 *
US-PATENT-CLASS-264-145	c 15	N79-26100 *	US-PATENT-CLASS-264-4	c 34	N90-23700 *	US-PATENT-CLASS-277-189	c 37	N82-16408 *
US-PATENT-CLASS-264-151	c 15	N79-26100 *	US-PATENT-CLASS-264-50	c 27	N88-23894 *	US-PATENT-CLASS-277-190	c 37	N84-11497 *
US-PATENT-CLASS-264-152	c 27	N85-20124 *	US-PATENT-CLASS-264-510	c 44	N79-24432 *	US-PATENT-CLASS-277-192	c 37	N79-22474 *
US-PATENT-CLASS-264-157	c 24	N78-17150 *	US-PATENT-CLASS-264-516	c 44	N79-24432 *	US-PATENT-CLASS-277-193	c 37	N80-28711 *
US-PATENT-CLASS-264-161	c 37	N78-31524 *	US-PATENT-CLASS-264-53	c 25	N82-21268 *	US-PATENT-CLASS-277-193	c 37	N81-26447 *
US-PATENT-CLASS-264-175	c 15	N79-26100 *	US-PATENT-CLASS-264-59	c 24	N84-16262 *	US-PATENT-CLASS-277-1	c 37	N82-24490 *
US-PATENT-CLASS-264-184	c 27	N78-32262 *	US-PATENT-CLASS-264-5	c 31	N81-33319 *	US-PATENT-CLASS-277-204	c 37	N82-24490 *
US-PATENT-CLASS-264-184	c 37	N91-27562 *	US-PATENT-CLASS-264-5	c 27	N82-28442 *	US-PATENT-CLASS-277-224	c 37	N80-28711 *
US-PATENT-CLASS-264-1	c 44	N79-24432 *	US-PATENT-CLASS-264-5	c 31	N83-31896 *	US-PATENT-CLASS-277-226	c 37	N91-27560 *
US-PATENT-CLASS-264-204	c 27	N86-29039 *	US-PATENT-CLASS-264-5	c 31	N83-35176 *	US-PATENT-CLASS-277-229	c 37	N81-15363 *
US-PATENT-CLASS-264-211.15	c 37	N91-27562 *	US-PATENT-CLASS-264-5	c 26	N86-32551 *	US-PATENT-CLASS-277-229	c 37	N91-27560 *
US-PATENT-CLASS-264-211.16	c 37	N91-27562 *	US-PATENT-CLASS-264-5	c 31	N91-32240 *	US-PATENT-CLASS-277-229	c 37	N92-22043 *
US-PATENT-CLASS-264-211.17	c 37	N91-27562 *	US-PATENT-CLASS-264-60	c 27	N76-22376 *	US-PATENT-CLASS-277-234	c 37	N92-22043 *
US-PATENT-CLASS-264-211	c 27	N78-32262 *	US-PATENT-CLASS-264-60	c 27	N79-14213 *	US-PATENT-CLASS-277-25	c 15	N69-21362 *
US-PATENT-CLASS-264-212	c 27	N80-32516 *	US-PATENT-CLASS-264-60	c 24	N84-16262 *	US-PATENT-CLASS-277-25	c 15	N71-19570 *
US-PATENT-CLASS-264-212	c 27	N86-31727 *	US-PATENT-CLASS-264-60	c 27	N87-28656 *	US-PATENT-CLASS-277-25	c 15	N72-29488 *
US-PATENT-CLASS-264-216	c 25	N82-21268 *	US-PATENT-CLASS-264-63	c 27	N76-22376 *	US-PATENT-CLASS-277-25	c 37	N74-10474 *
US-PATENT-CLASS-264-216	c 27	N86-29039 *	US-PATENT-CLASS-264-63	c 27	N87-28656 *	US-PATENT-CLASS-277-25	c 07	N78-25090 *
US-PATENT-CLASS-264-217	c 25	N75-12087 *	US-PATENT-CLASS-264-63	c 27	N92-16122 *	US-PATENT-CLASS-277-27	c 15	N72-29488 *
US-PATENT-CLASS-264-219	c 37	N76-31524 *	US-PATENT-CLASS-264-65	c 18	N73-14584 *	US-PATENT-CLASS-277-27	c 37	N74-10474 *
US-PATENT-CLASS-264-220	c 27	N82-28440 *	US-PATENT-CLASS-264-66	c 27	N76-22376 *	US-PATENT-CLASS-277-27	c 37	N74-15125 *
US-PATENT-CLASS-264-221	c 15	N72-16329 *	US-PATENT-CLASS-264-6	c 27	N90-23566 *	US-PATENT-CLASS-277-27	c 37	N75-21631 *
US-PATENT-CLASS-264-225	c 15	N72-16329 *	US-PATENT-CLASS-264-70	c 44	N79-24432 *	US-PATENT-CLASS-277-27	c 37	N82-12442 *
US-PATENT-CLASS-264-227	c 15	N72-16329 *	US-PATENT-CLASS-264-71	c 44	N79-24432 *	US-PATENT-CLASS-277-27	c 37	N92-16318 *
US-PATENT-CLASS-264-229	c 24	N81-29163 *	US-PATENT-CLASS-264-90	c 24	N78-17150 *	US-PATENT-CLASS-277-2	c 37	N82-24490 *
US-PATENT-CLASS-264-22	c 15	N72-20446 *	US-PATENT-CLASS-264-92	c 15	N71-17803 *	US-PATENT-CLASS-277-34.3	c 37	N92-21727 *
US-PATENT-CLASS-264-22	c 14	N72-22439 *	US-PATENT-CLASS-264-92	c 15	N72-24522 *	US-PATENT-CLASS-277-34	c 37	N90-23751 *
US-PATENT-CLASS-264-22	c 25	N75-12087 *	US-PATENT-CLASS-264-9	c 31	N81-33319 *	US-PATENT-CLASS-277-34	c 37	N91-27560 *
US-PATENT-CLASS-264-22	c 27	N80-32516 *	US-PATENT-CLASS-264-9	c 31	N83-31896 *	US-PATENT-CLASS-277-34	c 37	N92-21727 *
US-PATENT-CLASS-264-22	c 27	N82-28440 *	US-PATENT-CLASS-266-119	c 26	N80-28492 *	US-PATENT-CLASS-277-34	c 37	N92-22043 *
US-PATENT-CLASS-264-230	c 37	N82-24491 *	US-PATENT-CLASS-266-19	c 15	N70-33382 *	US-PATENT-CLASS-277-3	c 37	N92-21727 *
US-PATENT-CLASS-264-231	c 24	N81-29163 *	US-PATENT-CLASS-266-249	c 26	N80-28492 *	US-PATENT-CLASS-277-3	c 37	N92-22043 *
US-PATENT-CLASS-264-234	c 37	N91-27562 *	US-PATENT-CLASS-266-24	c 17	N72-28535 *	US-PATENT-CLASS-277-40	c 37	N75-21631 *
US-PATENT-CLASS-264-236	c 27	N78-32262 *	US-PATENT-CLASS-266-274	c 26	N80-28492 *	US-PATENT-CLASS-277-40	c 37	N82-12442 *
US-PATENT-CLASS-264-236	c 15	N79-26100 *	US-PATENT-CLASS-267-150	c 37	N85-34401 *	US-PATENT-CLASS-277-41	c 37	N76-22541 *
US-PATENT-CLASS-264-236	c 27	N86-29039 *	US-PATENT-CLASS-267-166	c 34	N74-18552 *	US-PATENT-CLASS-277-4	c 37	N76-22541 *
US-PATENT-CLASS-264-236	c 27	N86-31727 *	US-PATENT-CLASS-267-1	c 15	N69-27504 *	US-PATENT-CLASS-277-4	c 37	N82-24490 *
US-PATENT-CLASS-264-236	c 27	N89-29539 *	US-PATENT-CLASS-267-1	c 15	N70-38225 *	US-PATENT-CLASS-277-53	c 37	N86-20788 *
US-PATENT-CLASS-264-236	c 37	N91-27562 *	US-PATENT-CLASS-267-64	c 15	N71-21530 *	US-PATENT-CLASS-277-53	c 37	N92-16318 *
US-PATENT-CLASS-264-23	c 71	N78-10837 *	US-PATENT-CLASS-267-8R	c 37	N85-34401 *	US-PATENT-CLASS-277-59	c 37	N82-24490 *
US-PATENT-CLASS-264-23	c 31	N81-15154 *	US-PATENT-CLASS-269-147	c 35	N88-24927 *	US-PATENT-CLASS-277-62	c 37	N79-22475 *
US-PATENT-CLASS-264-24	c 31	N81-33319 *	US-PATENT-CLASS-269-152	c 18	N83-29303 *	US-PATENT-CLASS-277-72R	c 37	N82-24490 *
US-PATENT-CLASS-264-24	c 31	N83-35176 *	US-PATENT-CLASS-269-153	c 44	N79-19447 *	US-PATENT-CLASS-277-74	c 15	N72-29488 *
US-PATENT-CLASS-264-257	c 37	N74-18126 *	US-PATENT-CLASS-269-156	c 37	N80-14398 *	US-PATENT-CLASS-277-74	c 37	N76-22541 *
US-PATENT-CLASS-264-257	c 27	N89-29539 *	US-PATENT-CLASS-269-21	c 37	N76-21554 *	US-PATENT-CLASS-277-76	c 37	N92-22043 *
US-PATENT-CLASS-264-257	c 24	N91-25199 *	US-PATENT-CLASS-269-21	c 37	N78-17383 *	US-PATENT-CLASS-277-80	c 37	N85-29284 *
US-PATENT-CLASS-264-257	c 24	N91-25200 *	US-PATENT-CLASS-269-21	c 37	N78-27423 *	US-PATENT-CLASS-277-81R	c 37	N82-16408 *
US-PATENT-CLASS-264-258	c 24	N81-29163 *	US-PATENT-CLASS-269-21	c 76	N80-18951 *	US-PATENT-CLASS-277-91	c 37	N74-15125 *
US-PATENT-CLASS-264-258	c 27	N83-34041 *	US-PATENT-CLASS-269-21	c 37	N81-33482 *	US-PATENT-CLASS-277-93R	c 37	N76-22541 *
US-PATENT-CLASS-264-258	c 27	N85-20124 *	US-PATENT-CLASS-269-21	c 37	N91-21545 *	US-PATENT-CLASS-277-93R	c 37	N82-12442 *
US-PATENT-CLASS-264-259	c 24	N81-29163 *	US-PATENT-CLASS-269-224	c 37	N84-28083 *	US-PATENT-CLASS-277-96.1	c 37	N79-22475 *
US-PATENT-CLASS-264-261	c 24	N91-25199 *	US-PATENT-CLASS-269-242	c 18	N83-29303 *	US-PATENT-CLASS-277-96	c 37	N74-10474 *
US-PATENT-CLASS-264-267	c 37	N76-24575 *	US-PATENT-CLASS-269-242	c 37	N84-28083 *	US-PATENT-CLASS-277-96	c 37	N81-24442 *
US-PATENT-CLASS-264-27	c 26	N71-17818 *	US-PATENT-CLASS-269-244	c 18	N83-29303 *	US-PATENT-CLASS-279-1B	c 37	N75-33395 *
US-PATENT-CLASS-264-28	c 15	N73-12489 *	US-PATENT-CLASS-269-244	c 37	N84-28083 *	US-PATENT-CLASS-279-107	c 37	N75-33395 *
US-PATENT-CLASS-264-28	c 27	N90-23566 *	US-PATENT-CLASS-269-246	c 35	N88-24927 *	US-PATENT-CLASS-279-3	c 37	N78-17383 *
US-PATENT-CLASS-264-291	c 74	N87-28416 *	US-PATENT-CLASS-269-252	c 37	N84-28083 *	US-PATENT-CLASS-279-89	c 37	N75-33395 *
US-PATENT-CLASS-264-294	c 31	N74-13177 *	US-PATENT-CLASS-269-266	c 37	N78-27423 *	US-PATENT-CLASS-280-150SB	c 05	N75-25915 *
US-PATENT-CLASS-264-3R	c 28	N77-10213 *	US-PATENT-CLASS-269-267	c 37	N89-13785 *	US-PATENT-CLASS-280-432	c 37	N77-14477 *
US-PATENT-CLASS-264-3R	c 20	N77-17143 *	US-PATENT-CLASS-269-285	c 37	N84-28083 *	US-PATENT-CLASS-280-47.11	c 85	N87-21755 *
US-PATENT-CLASS-264-304	c 37	N76-31524 *	US-PATENT-CLASS-269-287	c 37	N80-23655 *	US-PATENT-CLASS-280-677	c 37	N90-17153 *
US-PATENT-CLASS-264-305	c 37	N76-31524 *	US-PATENT-CLASS-269-3	c 37	N84-12491 *	US-PATENT-CLASS-280-682	c 37	N90-17153 *
US-PATENT-CLASS-264-308	c 37	N76-31524 *	US-PATENT-CLASS-269-43	c 37	N88-14360 *	US-PATENT-CLASS-280-805	c 37	N82-16601 *
US-PATENT-CLASS-264-310	c 37	N76-31524 *	US-PATENT-CLASS-269-48.1	c 39	N74-13131 *	US-PATENT-CLASS-285-DIG.21	c 15	N72-25450 *
US-PATENT-CLASS-264-311	c 24	N81-29163 *	US-PATENT-CLASS-269-71	c 37	N88-14360 *	US-PATENT-CLASS-285-DIG.21	c 33	N73-26958 *
US-PATENT-CLASS-264-311	c 31	N90-19425 *	US-PATENT-CLASS-269-73	c 37	N88-14360 *	US-PATENT-CLASS-285-107	c 37	N89-13786 *
US-PATENT-CLASS-264-318	c 37	N76-31524 *	US-PATENT-CLASS-27-498	c 15	N73-28515 *	US-PATENT-CLASS-285-108	c 37	N89-13786 *
US-PATENT-CLASS-264-331.12	c 27	N85-20124 *	US-PATENT-CLASS-272-DIG.1	c 05	N73-32014 *	US-PATENT-CLASS-285-109	c 37	N89-13786 *
US-PATENT-CLASS-264-331.12	c 24	N91-25200 *	US-PATENT-CLASS-272-DIG.4	c 05	N73-32014 *	US-PATENT-CLASS-285-114	c 37	N75-19686 *
US-PATENT-CLASS-264-331.19	c 27	N85-20124 *	US-PATENT-CLASS-272-DIG.5	c 05	N73-32014 *	US-PATENT-CLASS-285-133.1	c 37	N89-13786 *
US-PATENT-CLASS-264-331.46	c 27	N83-34041 *	US-PATENT-CLASS-272-1R	c 09	N75-15662 *	US-PATENT-CLASS-285-137.1	c 35	N87-28884 *
US-PATENT-CLASS-264-331	c 27	N76-16230 *	US-PATENT-CLASS-272-57A	c 09	N75-15662 *	US-PATENT-CLASS-285-159	c 37	N82-24494 *
US-PATENT-CLASS-264-332	c 37	N81-25371 *	US-PATENT-CLASS-272-70	c 05	N71-28619 *	US-PATENT-CLASS-285-168	c 54	N86-28619 *
US-PATENT-CLASS-264-332	c 27	N87-28656 *	US-PATENT-CLASS-272-73	c 14	N73-27377 *	US-PATENT-CLASS-285-168	c 54	N86-28620 *
US-PATENT-CLASS-264-334	c 37	N76-31524 *	US-PATENT-CLASS-272-73	c 05	N73-27941 *	US-PATENT-CLASS-285-168	c 54	N86-29507 *
US-PATENT-CLASS-264-33	c 44	N79-24432 *	US-PATENT-CLASS-272-73	c 37	N74-18127 *	US-PATENT-CLASS-285-184	c 54	N86-29507 *
US-PATENT-CLASS-264-342R	c 37	N82-24491 *	US-PATENT-CLASS-272-79C	c 05	N73-32014 *	US-PATENT-CLASS-285-18	c 15	N72-20445 *
US-PATENT-CLASS-264-345	c 71	N78-10837 *	US-PATENT-CLASS-272-80	c 37	N74-18127 *	US-PATENT-CLASS-285-192	c 20	N78-24275 *
US-PATENT-CLASS-264-345	c 37	N91-27562 *	US-PATENT-CLASS-273-1E	c 05	N73-13114 *	US-PATENT-CLASS-285-223	c 37	N92-21727 *
US-PATENT-CLASS-264-347	c 27	N86-29039 *	US-PATENT-CLASS-273-148B	c 33	N92-29153 *	US-PATENT-CLASS-285-226	c 37	N75-19686 *
US-PATENT-CLASS-264-347	c 27	N89-29539 *	US-PATENT-CLASS-273-240	c 31	N83-34073 *	US-PATENT-CLASS-285-226	c 37	N76-14460 *
US-PATENT-CLASS-264-34	c 44	N79-24432 *	US-PATENT-CLASS-274-4R	c 09	N72-11224 *	US-PATENT-CLASS-285-226	c 18	N89-28553 *

US-PATENT-CLASS-285-227	c 54	N86-29507 *	#	US-PATENT-CLASS-29-197	c 37	N75-13261 *	US-PATENT-CLASS-29-527.2	c 15	N73-32360 *
US-PATENT-CLASS-285-235	c 54	N78-31735 *		US-PATENT-CLASS-29-197	c 26	N75-19408 *	US-PATENT-CLASS-29-527.2	c 37	N74-11301 *
US-PATENT-CLASS-285-235	c 54	N79-24651 *		US-PATENT-CLASS-29-197	c 44	N76-14595 *	US-PATENT-CLASS-29-527.2	c 24	N75-33181 *
US-PATENT-CLASS-285-235	c 37	N92-10197 *		US-PATENT-CLASS-29-198	c 17	N70-33288 *	US-PATENT-CLASS-29-527.2	c 24	N77-19171 *
US-PATENT-CLASS-285-24	c 15	N71-10782 *		US-PATENT-CLASS-29-198	c 09	N72-25259 *	US-PATENT-CLASS-29-558	c 37	N91-32508 *
US-PATENT-CLASS-285-265	c 37	N76-14460 *		US-PATENT-CLASS-29-203H	c 37	N74-32918 *	US-PATENT-CLASS-29-568	c 37	N91-31656 *
US-PATENT-CLASS-285-27	c 15	N70-41808 *		US-PATENT-CLASS-29-203MW	c 33	N74-26977 *	US-PATENT-CLASS-29-57.4	c 44	N79-24431 *
US-PATENT-CLASS-285-27	c 18	N87-27713 *		US-PATENT-CLASS-29-203V	c 15	N73-14468 *	US-PATENT-CLASS-29-570	c 26	N72-28761 *
US-PATENT-CLASS-285-302	c 18	N89-25266 *		US-PATENT-CLASS-29-23.5	c 37	N78-24544 *	US-PATENT-CLASS-29-571	c 35	N75-13213 *
US-PATENT-CLASS-285-305	c 37	N87-22977 *		US-PATENT-CLASS-29-234	c 15	N70-36901 *	US-PATENT-CLASS-29-571	c 33	N78-27326 *
US-PATENT-CLASS-285-314	c 15	N71-24903 *		US-PATENT-CLASS-29-244	c 37	N78-24544 *	US-PATENT-CLASS-29-571	c 33	N81-26360 *
US-PATENT-CLASS-285-316	c 15	N72-25450 *		US-PATENT-CLASS-29-25.14	c 05	N72-25121 *	US-PATENT-CLASS-29-572	c 09	N71-23027 *
US-PATENT-CLASS-285-316	c 33	N73-26958 *		US-PATENT-CLASS-29-25.14	c 35	N82-24471 *	US-PATENT-CLASS-29-572	c 03	N71-24681 *
US-PATENT-CLASS-285-317	c 15	N71-24903 *		US-PATENT-CLASS-29-25.18	c 09	N71-26678 *	US-PATENT-CLASS-29-572	c 03	N72-22041 *
US-PATENT-CLASS-285-31	c 18	N87-27713 *		US-PATENT-CLASS-29-25.18	c 05	N72-25121 *	US-PATENT-CLASS-29-572	c 44	N74-14784 *
US-PATENT-CLASS-285-326	c 37	N79-11402 *		US-PATENT-CLASS-29-25.18	c 20	N75-18310 *	US-PATENT-CLASS-29-572	c 44	N76-14600 *
US-PATENT-CLASS-285-327	c 37	N91-14610 *		US-PATENT-CLASS-29-25.18	c 20	N76-21276 *	US-PATENT-CLASS-29-572	c 44	N76-28635 *
US-PATENT-CLASS-285-331	c 15	N70-41629 *		US-PATENT-CLASS-29-25.35	c 35	N80-20559 *	US-PATENT-CLASS-29-572	c 44	N71-10635 *
US-PATENT-CLASS-285-33	c 15	N72-25450 *		US-PATENT-CLASS-29-25.42	c 26	N72-28762 *	US-PATENT-CLASS-29-572	c 44	N78-24609 *
US-PATENT-CLASS-285-345	c 15	N72-20445 *		US-PATENT-CLASS-29-252	c 37	N78-24544 *	US-PATENT-CLASS-29-572	c 44	N78-25527 *
US-PATENT-CLASS-285-346	c 37	N92-21727 *		US-PATENT-CLASS-29-26A	c 37	N75-33395 *	US-PATENT-CLASS-29-572	c 44	N78-25528 *
US-PATENT-CLASS-285-351	c 37	N89-13786 *		US-PATENT-CLASS-29-267	c 60	N82-24839 *	US-PATENT-CLASS-29-572	c 44	N78-25529 *
US-PATENT-CLASS-285-353	c 37	N92-10197 *		US-PATENT-CLASS-29-268	c 37	N74-32918 *	US-PATENT-CLASS-29-572	c 44	N79-11468 *
US-PATENT-CLASS-285-359	c 37	N79-11402 *		US-PATENT-CLASS-29-271	c 15	N70-41371 *	US-PATENT-CLASS-29-572	c 44	N79-11472 *
US-PATENT-CLASS-285-361	c 37	N91-14613 *		US-PATENT-CLASS-29-278R	c 15	N71-29133 *	US-PATENT-CLASS-29-572	c 44	N79-17314 *
US-PATENT-CLASS-285-373	c 18	N87-27713 *		US-PATENT-CLASS-29-400	c 05	N71-12345 *	US-PATENT-CLASS-29-572	c 44	N79-18444 *
US-PATENT-CLASS-285-37	c 37	N82-24490 *		US-PATENT-CLASS-29-402.16	c 37	N86-32736 *	US-PATENT-CLASS-29-572	c 44	N79-24431 *
US-PATENT-CLASS-285-381	c 37	N92-29120 *		US-PATENT-CLASS-29-412	c 15	N72-20444 *	US-PATENT-CLASS-29-572	c 44	N79-26475 *
US-PATENT-CLASS-285-38	c 15	N71-24903 *		US-PATENT-CLASS-29-419	c 24	N75-28135 *	US-PATENT-CLASS-29-572	c 44	N79-31752 *
US-PATENT-CLASS-285-39	c 37	N89-13786 *		US-PATENT-CLASS-29-420.5	c 26	N74-10521 *	US-PATENT-CLASS-29-572	c 44	N80-14474 *
US-PATENT-CLASS-285-39	c 37	N92-10197 *		US-PATENT-CLASS-29-420.5	c 37	N74-13179 *	US-PATENT-CLASS-29-572	c 44	N82-28780 *
US-PATENT-CLASS-285-3	c 15	N69-27490 *	#	US-PATENT-CLASS-29-420.5	c 37	N75-26371 *	US-PATENT-CLASS-29-572	c 44	N82-29709 *
US-PATENT-CLASS-285-3	c 15	N72-25450 *		US-PATENT-CLASS-29-420	c 24	N75-13032 *	US-PATENT-CLASS-29-572	c 44	N83-13579 *
US-PATENT-CLASS-285-401	c 37	N82-24494 *		US-PATENT-CLASS-29-421E	c 37	N79-13364 *	US-PATENT-CLASS-29-572	c 76	N86-20150 *
US-PATENT-CLASS-285-406	c 15	N71-24903 *		US-PATENT-CLASS-29-421	c 15	N71-29018 *	US-PATENT-CLASS-29-572	c 44	N86-32875 *
US-PATENT-CLASS-285-410	c 05	N72-11085 *		US-PATENT-CLASS-29-421	c 14	N72-22439 *	US-PATENT-CLASS-29-573	c 14	N73-13417 *
US-PATENT-CLASS-285-421	c 18	N87-27713 *		US-PATENT-CLASS-29-421	c 37	N76-14461 *	US-PATENT-CLASS-29-575	c 76	N87-15882 *
US-PATENT-CLASS-285-45	c 15	N71-28937 *		US-PATENT-CLASS-29-423	c 15	N70-36409 *	US-PATENT-CLASS-29-576-E	c 76	N87-15882 *
US-PATENT-CLASS-285-81	c 37	N87-22977 *		US-PATENT-CLASS-29-423	c 31	N74-21059 *	US-PATENT-CLASS-29-576-J	c 76	N87-15882 *
US-PATENT-CLASS-285-82	c 37	N91-14613 *		US-PATENT-CLASS-29-423	c 52	N84-28389 *	US-PATENT-CLASS-29-576-W	c 76	N87-15882 *
US-PATENT-CLASS-285-85	c 37	N87-22977 *		US-PATENT-CLASS-29-426	c 15	N72-20444 *	US-PATENT-CLASS-29-576B	c 44	N86-32875 *
US-PATENT-CLASS-285-86	c 18	N87-27713 *		US-PATENT-CLASS-29-428	c 15	N71-17686 *	US-PATENT-CLASS-29-576E	c 76	N85-30922 *
US-PATENT-CLASS-285-89	c 37	N82-24494 *		US-PATENT-CLASS-29-432	c 37	N76-19437 *	US-PATENT-CLASS-29-576J	c 35	N82-31659 *
US-PATENT-CLASS-285-901	c 35	N87-28884 *		US-PATENT-CLASS-29-433	c 37	N76-19437 *	US-PATENT-CLASS-29-576J	c 76	N85-30922 *
US-PATENT-CLASS-285-910	c 37	N92-21727 *		US-PATENT-CLASS-29-446	c 37	N83-36482 *	US-PATENT-CLASS-29-576S	c 35	N82-31659 *
US-PATENT-CLASS-285-912	c 37	N92-10197 *		US-PATENT-CLASS-29-447	c 37	N77-23482 *	US-PATENT-CLASS-29-576W	c 76	N85-30922 *
US-PATENT-CLASS-285-91	c 37	N87-22977 *		US-PATENT-CLASS-29-451	c 52	N84-28389 *	US-PATENT-CLASS-29-577	c 44	N79-26475 *
US-PATENT-CLASS-285-97	c 37	N89-13786 *		US-PATENT-CLASS-29-452	c 15	N73-30457 *	US-PATENT-CLASS-29-578	c 26	N72-17820 *
US-PATENT-CLASS-285-97	c 37	N92-21727 *		US-PATENT-CLASS-29-458	c 26	N83-10170 *	US-PATENT-CLASS-29-578	c 33	N78-27326 *
US-PATENT-CLASS-287-119	c 15	N70-41829 *		US-PATENT-CLASS-29-460	c 37	N74-11301 *	US-PATENT-CLASS-29-578	c 44	N79-18444 *
US-PATENT-CLASS-287-189.365	c 15	N71-26312 *		US-PATENT-CLASS-29-460	c 37	N75-13261 *	US-PATENT-CLASS-29-578	c 44	N79-26475 *
US-PATENT-CLASS-287-189.36	c 15	N71-10799 *		US-PATENT-CLASS-29-463	c 07	N78-33101 *	US-PATENT-CLASS-29-578	c 33	N81-26360 *
US-PATENT-CLASS-287-54A	c 11	N72-25287 *		US-PATENT-CLASS-29-467	c 39	N76-31562 *	US-PATENT-CLASS-29-578	c 76	N85-30922 *
US-PATENT-CLASS-287-85R	c 15	N73-12488 *		US-PATENT-CLASS-29-470.1	c 37	N74-21057 *	US-PATENT-CLASS-29-578	c 76	N87-15882 *
US-PATENT-CLASS-287-92	c 31	N73-32749 *		US-PATENT-CLASS-29-470.1	c 37	N75-12326 *	US-PATENT-CLASS-29-580	c 09	N73-27150 *
US-PATENT-CLASS-29-DIG.1	c 44	N81-14389 *		US-PATENT-CLASS-29-472.7	c 37	N75-15992 *	US-PATENT-CLASS-29-580	c 44	N79-26475 *
US-PATENT-CLASS-29-DIG.24	c 24	N75-33181 *		US-PATENT-CLASS-29-472.9	c 15	N69-39786 *	US-PATENT-CLASS-29-580	c 33	N81-26360 *
US-PATENT-CLASS-29-DIG.35	c 37	N77-23482 *		US-PATENT-CLASS-29-472.9	c 26	N71-16037 *	US-PATENT-CLASS-29-580	c 35	N87-14671 *
US-PATENT-CLASS-29-DIG.39	c 24	N75-33181 *		US-PATENT-CLASS-29-472.9	c 15	N72-22492 *	US-PATENT-CLASS-29-588	c 14	N71-27334 *
US-PATENT-CLASS-29-110.5	c 37	N92-28754 *		US-PATENT-CLASS-29-473.1	c 15	N72-22487 *	US-PATENT-CLASS-29-588	c 14	N72-31446 *
US-PATENT-CLASS-29-123	c 37	N92-28754 *		US-PATENT-CLASS-29-473.1	c 15	N72-22492 *	US-PATENT-CLASS-29-588	c 44	N74-14784 *
US-PATENT-CLASS-29-125	c 37	N79-10422 *		US-PATENT-CLASS-29-475	c 37	N75-15992 *	US-PATENT-CLASS-29-588	c 44	N80-14474 *
US-PATENT-CLASS-29-132	c 37	N92-28754 *		US-PATENT-CLASS-29-482	c 05	N72-25121 *	US-PATENT-CLASS-29-589	c 26	N72-17820 *
US-PATENT-CLASS-29-148.4A	c 37	N74-15128 *		US-PATENT-CLASS-29-482	c 37	N74-18128 *	US-PATENT-CLASS-29-589	c 09	N72-25261 *
US-PATENT-CLASS-29-148.4B	c 37	N74-15128 *		US-PATENT-CLASS-29-487	c 15	N73-33383 *	US-PATENT-CLASS-29-589	c 15	N73-14469 *
US-PATENT-CLASS-29-148.4	c 15	N71-16052 *		US-PATENT-CLASS-29-487	c 37	N74-21055 *	US-PATENT-CLASS-29-589	c 44	N79-31752 *
US-PATENT-CLASS-29-148.4	c 15	N71-17688 *		US-PATENT-CLASS-29-488	c 15	N70-33311 *	US-PATENT-CLASS-29-590	c 09	N72-22199 *
US-PATENT-CLASS-29-155.55	c 15	N71-15986 *		US-PATENT-CLASS-29-488	c 37	N74-18128 *	US-PATENT-CLASS-29-591	c 15	N73-14469 *
US-PATENT-CLASS-29-156.5-R	c 24	N87-27742 *	#	US-PATENT-CLASS-29-492	c 15	N71-20443 *	US-PATENT-CLASS-29-591	c 44	N79-18444 *
US-PATENT-CLASS-29-156.8R	c 37	N78-24544 *		US-PATENT-CLASS-29-492	c 09	N72-25261 *	US-PATENT-CLASS-29-591	c 35	N87-14671 *
US-PATENT-CLASS-29-157.3H	c 74	N83-19596 *		US-PATENT-CLASS-29-494	c 15	N73-33383 *	US-PATENT-CLASS-29-592	c 35	N75-13213 *
US-PATENT-CLASS-29-157.3R	c 34	N74-18552 *		US-PATENT-CLASS-29-494	c 37	N74-21055 *	US-PATENT-CLASS-29-597	c 33	N77-26385 *
US-PATENT-CLASS-29-157.3	c 28	N70-41818 *		US-PATENT-CLASS-29-494	c 37	N75-13261 *	US-PATENT-CLASS-29-599	c 15	N72-25447 *
US-PATENT-CLASS-29-157	c 28	N71-15658 *		US-PATENT-CLASS-29-495	c 15	N71-21078 *	US-PATENT-CLASS-29-599	c 26	N73-26752 *
US-PATENT-CLASS-29-182.1	c 18	N71-23710 *		US-PATENT-CLASS-29-497.5	c 15	N73-28515 *	US-PATENT-CLASS-29-599	c 26	N73-32571 *
US-PATENT-CLASS-29-182.2	c 17	N71-23046 *		US-PATENT-CLASS-29-497.5	c 15	N73-33383 *	US-PATENT-CLASS-29-603	c 08	N71-27210 *
US-PATENT-CLASS-29-182.2	c 37	N75-26371 *		US-PATENT-CLASS-29-497.5	c 15	N73-33383 *	US-PATENT-CLASS-29-604	c 24	N75-13032 *
US-PATENT-CLASS-29-182.5	c 17	N72-28536 *		US-PATENT-CLASS-29-497.5	c 37	N74-11300 *	US-PATENT-CLASS-29-610SG	c 35	N85-21598 *
US-PATENT-CLASS-29-182.5	c 37	N75-26371 *		US-PATENT-CLASS-29-497.5	c 37	N75-13261 *	US-PATENT-CLASS-29-610	c 24	N75-30260 *
US-PATENT-CLASS-29-182.5	c 27	N76-15311 *		US-PATENT-CLASS-29-497	c 09	N72-25261 *	US-PATENT-CLASS-29-613	c 24	N75-30260 *
US-PATENT-CLASS-29-182.5	c 27	N77-13217 *		US-PATENT-CLASS-29-497	c 15	N73-32358 *	US-PATENT-CLASS-29-613	c 35	N82-24470 *
US-PATENT-CLASS-29-182	c 37	N74-13179 *		US-PATENT-CLASS-29-497	c 37	N74-18128 *	US-PATENT-CLASS-29-620	c 35	N82-31659 *
US-PATENT-CLASS-29-182	c 34	N76-27515 *		US-PATENT-CLASS-29-498	c 09	N72-25261 *	US-PATENT-CLASS-29-622	c 33	N77-26385 *
US-PATENT-CLASS-29-183.5	c 17	N70-38490 *		US-PATENT-CLASS-29-498	c 15	N73-33383 *	US-PATENT-CLASS-29-623.5	c 44	N83-32176 *
US-PATENT-CLASS-29-193	c 34	N76-27515 *		US-PATENT-CLASS-29-498	c 37	N74-11301 *	US-PATENT-CLASS-29-623.5	c 26	N84-22734 *
US-PATENT-CLASS-29-194	c 26	N75-19408 *		US-PATENT-CLASS-29-498	c 37	N74-18128 *	US-PATENT-CLASS-29-623.5	c 44	N84-28205 *
US-PATENT-CLASS-29-194	c 44	N76-14595 *		US-PATENT-CLASS-29-498	c 37	N74-21055 *	US-PATENT-CLASS-29-623.5	c 33	N91-27478 *
US-PATENT-CLASS-29-195A	c 27	N76-16229 *		US-PATENT-CLASS-29-502	c 09	N72-25261 *	US-PATENT-CLASS-29-624	c 15	N72-20444 *
US-PATENT-CLASS-29-195Y	c 14	N73-32320 *		US-PATENT-CLASS-29-503	c 37	N74-11301 *	US-PATENT-CLASS-29-624	c 14	N73-13417 *
US-PATENT-CLASS-29-195	c 44	N76-14595 *		US-PATENT-CLASS-29-504	c 37	N74-21055 *	US-PATENT-CLASS-29-627	c 44	N80-14474 *
US-PATENT-CLASS-29-196.2	c 17	N73-32414 *		US-PATENT-CLASS-29-504	c 37	N75-13261 *	US-PATENT-CLASS-29-628	c 15	N72-22491 *
US-PATENT-CLASS-29-196.2	c 26	N75-19408 *		US-PATENT-CLASS-29-517	c 15	N71-17650 *	US-PATENT-CLASS-29-628	c 09	N72-25261 *
US-PATENT-CLASS-29-196.6	c 17	N73-32414 *		US-PATENT-CLASS-29-521	c 26	N83-10170 *	US-PATENT-CLASS-29-628	c 09	N73-28083 *
US-PATENT-CLASS-29-196.6	c 37	N75-13261 *		US-PATENT-CLASS-29-526	c 37	N76-19437 *	US-PATENT-CLASS-29-628	c 33	N77-26385 *
US-PATENT-CLASS-29-196.6	c 26	N75-19408 *		US-PATENT-CLASS-29-526	c 39	N76-31562 *	US-PATENT-CLASS-29-628	c 44	N78-25528 *
US-PATENT-CLASS-29-197	c 17								

US-PATENT-CLASS-29-630A	c 05	N72-25121 *	US-PATENT-CLASS-299-86	c 46	N74-23069 *	US-PATENT-CLASS-307-230	c 33	N74-32712 *
US-PATENT-CLASS-29-630A	c 09	N73-28083 *	US-PATENT-CLASS-3-1.1	c 05	N73-32013 *	US-PATENT-CLASS-307-230	c 33	N77-17354 *
US-PATENT-CLASS-29-630E	c 33	N77-26385 *	US-PATENT-CLASS-3-1.1	c 52	N77-14738 *	US-PATENT-CLASS-307-230	c 33	N78-32339 *
US-PATENT-CLASS-29-630	c 09	N73-28083 *	US-PATENT-CLASS-3-1.1	c 54	N79-24652 *	US-PATENT-CLASS-307-231	c 09	N72-22202 *
US-PATENT-CLASS-29-739	c 44	N79-24431 *	US-PATENT-CLASS-3-1.2	c 74	N84-11921 *	US-PATENT-CLASS-307-232	c 33	N77-21314 *
US-PATENT-CLASS-29-764	c 60	N82-24639 *	US-PATENT-CLASS-3-1.2	c 52	N77-14735 *	US-PATENT-CLASS-307-232	c 33	N79-11313 *
US-PATENT-CLASS-29-809	c 44	N79-24431 *	US-PATENT-CLASS-3-1.2	c 52	N78-10686 *	US-PATENT-CLASS-307-233R	c 32	N79-10262 *
US-PATENT-CLASS-29-81C	c 75	N78-27913 *	US-PATENT-CLASS-3-1.9	c 27	N78-17215 *	US-PATENT-CLASS-307-233R	c 33	N81-17348 *
US-PATENT-CLASS-29-81D	c 37	N76-18454 *	US-PATENT-CLASS-3-1.9	c 52	N79-26772 *	US-PATENT-CLASS-307-233	c 09	N72-25257 *
US-PATENT-CLASS-29-825	c 44	N84-28205 *	US-PATENT-CLASS-3-12.5	c 54	N78-17676 *	US-PATENT-CLASS-307-233	c 10	N73-26229 *
US-PATENT-CLASS-29-832	c 44	N81-14389 *	US-PATENT-CLASS-3-12.5	c 54	N79-24652 *	US-PATENT-CLASS-307-233	c 33	N77-13315 *
US-PATENT-CLASS-29-888.046	c 37	N90-22042 *	US-PATENT-CLASS-3-12	c 05	N73-32013 *	US-PATENT-CLASS-307-234	c 10	N71-23315 *
US-PATENT-CLASS-290-1-R	c 33	N87-23904 *	US-PATENT-CLASS-3-12	c 52	N79-26772 *	US-PATENT-CLASS-307-234	c 09	N71-27016 *
US-PATENT-CLASS-290-1R	c 44	N85-21769 *	US-PATENT-CLASS-3-14	c 52	N77-14735 *	US-PATENT-CLASS-307-234	c 08	N71-29138 *
US-PATENT-CLASS-290-4R	c 44	N85-21769 *	US-PATENT-CLASS-3-15	c 52	N78-10686 *	US-PATENT-CLASS-307-235R	c 33	N75-18479 *
US-PATENT-CLASS-290-40	c 03	N71-11057 *	US-PATENT-CLASS-3-1	c 52	N77-25772 *	US-PATENT-CLASS-307-235	c 10	N71-19471 *
US-PATENT-CLASS-290-44	c 37	N90-23742 *	US-PATENT-CLASS-3-21	c 54	N77-30749 *	US-PATENT-CLASS-307-235	c 09	N71-23545 *
US-PATENT-CLASS-290-44	c 05	N91-14345 *	US-PATENT-CLASS-3-29	c 52	N78-10686 *	US-PATENT-CLASS-307-235	c 10	N71-24862 *
US-PATENT-CLASS-290-52	c 37	N77-32500 *	US-PATENT-CLASS-3-2	c 05	N73-32013 *	US-PATENT-CLASS-307-237	c 09	N72-22200 *
US-PATENT-CLASS-290-52	c 37	N77-32501 *	US-PATENT-CLASS-3-2	c 54	N77-30749 *	US-PATENT-CLASS-307-237	c 32	N74-19788 *
US-PATENT-CLASS-290-53	c 44	N80-29834 *	US-PATENT-CLASS-3-2	c 52	N79-26772 *	US-PATENT-CLASS-307-238	c 33	N75-31331 *
US-PATENT-CLASS-290-55	c 44	N84-23018 *	US-PATENT-CLASS-3-6	c 05	N73-32013 *	US-PATENT-CLASS-307-238	c 33	N77-21314 *
US-PATENT-CLASS-290-55	c 37	N90-23742 *	US-PATENT-CLASS-30-102	c 37	N82-26672 *	US-PATENT-CLASS-307-241	c 09	N72-22201 *
US-PATENT-CLASS-290-55	c 05	N91-14345 *	US-PATENT-CLASS-30-180	c 37	N84-28085 *	US-PATENT-CLASS-307-242	c 10	N73-13235 *
US-PATENT-CLASS-292-DIG.14	c 37	N75-19685 *	US-PATENT-CLASS-30-188	c 37	N84-28085 *	US-PATENT-CLASS-307-243	c 09	N71-12516 *
US-PATENT-CLASS-292-DIG.39	c 37	N92-21500 *	US-PATENT-CLASS-30-228	c 15	N70-42017 *	US-PATENT-CLASS-307-243	c 08	N72-22162 *
US-PATENT-CLASS-292-DIG.49	c 37	N87-25582 *	US-PATENT-CLASS-30-228	c 37	N84-28085 *	US-PATENT-CLASS-307-243	c 33	N74-22814 *
US-PATENT-CLASS-292-DIG.66	c 37	N92-29120 *	US-PATENT-CLASS-30-249	c 37	N84-28085 *	US-PATENT-CLASS-307-246	c 09	N71-27016 *
US-PATENT-CLASS-292-108	c 37	N75-19685 *	US-PATENT-CLASS-30-272R	c 37	N84-28085 *	US-PATENT-CLASS-307-247	c 09	N71-29139 *
US-PATENT-CLASS-292-110	c 37	N77-32499 *	US-PATENT-CLASS-30-388	c 37	N91-31655 *	US-PATENT-CLASS-307-247	c 09	N72-22202 *
US-PATENT-CLASS-292-110	c 37	N92-21500 *	US-PATENT-CLASS-30-90.6	c 37	N79-10419 *	US-PATENT-CLASS-307-251	c 09	N71-33109 *
US-PATENT-CLASS-292-122	c 37	N75-19685 *	US-PATENT-CLASS-30-92	c 37	N91-31655 *	US-PATENT-CLASS-307-251	c 08	N72-22162 *
US-PATENT-CLASS-292-201	c 37	N87-25582 *	US-PATENT-CLASS-301-5P	c 37	N74-18125 *	US-PATENT-CLASS-307-252F	c 09	N72-17153 *
US-PATENT-CLASS-292-251.5	c 31	N92-16161 *	US-PATENT-CLASS-301-82	c 33	N79-10339 *	US-PATENT-CLASS-307-252J	c 09	N72-17153 *
US-PATENT-CLASS-292-252	c 37	N85-21649 *	US-PATENT-CLASS-302-66	c 25	N79-11152 *	US-PATENT-CLASS-307-252J	c 09	N72-22201 *
US-PATENT-CLASS-292-27	c 37	N90-17154 *	US-PATENT-CLASS-303-92	c 44	N79-14527 *	US-PATENT-CLASS-307-252K	c 09	N72-22201 *
US-PATENT-CLASS-292-34	c 37	N90-17154 *	US-PATENT-CLASS-305-35EB	c 11	N73-26238 *	US-PATENT-CLASS-307-252L	c 33	N74-27682 *
US-PATENT-CLASS-292-60	c 37	N91-27561 *	US-PATENT-CLASS-305-36	c 37	N87-17034 *	US-PATENT-CLASS-307-252N	c 33	N72-23171 *
US-PATENT-CLASS-292-61	c 37	N91-27561 *	US-PATENT-CLASS-305-39	c 11	N73-26238 *	US-PATENT-CLASS-307-252Q	c 09	N74-27682 *
US-PATENT-CLASS-292-64	c 37	N87-25582 *	US-PATENT-CLASS-305-51	c 37	N87-17034 *	US-PATENT-CLASS-307-252R	c 09	N72-23171 *
US-PATENT-CLASS-294-1R	c 35	N76-16392 *	US-PATENT-CLASS-305-58PC	c 37	N87-17034 *	US-PATENT-CLASS-307-252UA	c 33	N81-27395 *
US-PATENT-CLASS-294-106	c 37	N81-14320 *	US-PATENT-CLASS-305-58R	c 37	N87-17034 *	US-PATENT-CLASS-307-252	c 10	N69-39888 *
US-PATENT-CLASS-294-106	c 37	N88-23979 *	US-PATENT-CLASS-307-103	c 09	N72-25262 *	US-PATENT-CLASS-307-252	c 09	N71-12514 *
US-PATENT-CLASS-294-106	c 37	N90-20408 *	US-PATENT-CLASS-307-104	c 09	N71-24892 *	US-PATENT-CLASS-307-253	c 10	N71-27126 *
US-PATENT-CLASS-294-106	c 37	N91-14616 *	US-PATENT-CLASS-307-106	c 09	N69-21468 *	US-PATENT-CLASS-307-254	c 10	N71-24799 *
US-PATENT-CLASS-294-111	c 37	N91-14616 *	US-PATENT-CLASS-307-106	c 33	N88-24862 *	US-PATENT-CLASS-307-254	c 09	N72-22200 *
US-PATENT-CLASS-294-113	c 37	N80-14398 *	US-PATENT-CLASS-307-118	c 09	N72-27227 *	US-PATENT-CLASS-307-257	c 09	N72-21247 *
US-PATENT-CLASS-294-113	c 37	N88-23979 *	US-PATENT-CLASS-307-119	c 33	N79-28415 *	US-PATENT-CLASS-307-259	c 09	N72-21247 *
US-PATENT-CLASS-294-116	c 37	N75-33395 *	US-PATENT-CLASS-307-126	c 14	N71-27407 *	US-PATENT-CLASS-307-259	c 09	N72-23171 *
US-PATENT-CLASS-294-116	c 37	N82-32731 *	US-PATENT-CLASS-307-127	c 33	N74-14956 *	US-PATENT-CLASS-307-259	c 10	N73-13235 *
US-PATENT-CLASS-294-119.1	c 37	N91-14615 *	US-PATENT-CLASS-307-131	c 44	N87-21410 *	US-PATENT-CLASS-307-260	c 09	N71-23311 *
US-PATENT-CLASS-294-119.1	c 37	N92-29138 *	US-PATENT-CLASS-307-136	c 09	N69-27500 *	US-PATENT-CLASS-307-260	c 05	N71-23317 *
US-PATENT-CLASS-294-119.2	c 37	N88-23979 *	US-PATENT-CLASS-307-141.8	c 03	N72-25020 *	US-PATENT-CLASS-307-260	c 33	N75-19515 *
US-PATENT-CLASS-294-15	c 15	N71-29133 *	US-PATENT-CLASS-307-149	c 09	N71-13486 *	US-PATENT-CLASS-307-261	c 09	N71-33109 *
US-PATENT-CLASS-294-16	c 37	N88-23979 *	US-PATENT-CLASS-307-149	c 54	N75-12616 *	US-PATENT-CLASS-307-261	c 09	N72-25251 *
US-PATENT-CLASS-294-19R	c 35	N76-16392 *	US-PATENT-CLASS-307-151	c 32	N78-24391 *	US-PATENT-CLASS-307-261	c 33	N87-21235 *
US-PATENT-CLASS-294-65.5	c 37	N92-28727 *	US-PATENT-CLASS-307-157	c 16	N73-32391 *	US-PATENT-CLASS-307-262	c 10	N72-16172 *
US-PATENT-CLASS-294-65.5	c 37	N92-33018 *	US-PATENT-CLASS-307-18	c 03	N73-31988 *	US-PATENT-CLASS-307-262	c 09	N72-22197 *
US-PATENT-CLASS-294-66.2	c 37	N92-33018 *	US-PATENT-CLASS-307-18	c 33	N74-34638 *	US-PATENT-CLASS-307-262	c 09	N72-33204 *
US-PATENT-CLASS-294-82.26	c 37	N91-32498 *	US-PATENT-CLASS-307-201	c 32	N92-22033 *	US-PATENT-CLASS-307-263	c 09	N71-23270 *
US-PATENT-CLASS-294-83	c 15	N71-24897 *	US-PATENT-CLASS-307-204	c 35	N75-30504 *	US-PATENT-CLASS-307-263	c 09	N71-28926 *
US-PATENT-CLASS-294-86.33	c 37	N75-33395 *	US-PATENT-CLASS-307-205	c 33	N75-14957 *	US-PATENT-CLASS-307-264	c 33	N86-20672 *
US-PATENT-CLASS-294-86.4	c 37	N90-20408 *	US-PATENT-CLASS-307-206	c 10	N72-22236 *	US-PATENT-CLASS-307-265	c 09	N69-39987 *
US-PATENT-CLASS-294-86.4	c 37	N91-31656 *	US-PATENT-CLASS-307-207	c 08	N71-29034 *	US-PATENT-CLASS-307-265	c 10	N71-23029 *
US-PATENT-CLASS-294-86.4	c 37	N92-28727 *	US-PATENT-CLASS-307-207	c 09	N73-13209 *	US-PATENT-CLASS-307-265	c 09	N71-28468 *
US-PATENT-CLASS-294-86.4	c 37	N92-33018 *	US-PATENT-CLASS-307-208	c 33	N75-14957 *	US-PATENT-CLASS-307-265	c 10	N71-28860 *
US-PATENT-CLASS-294-86R	c 37	N80-14398 *	US-PATENT-CLASS-307-211	c 35	N75-30504 *	US-PATENT-CLASS-307-265	c 08	N71-29138 *
US-PATENT-CLASS-294-86R	c 37	N81-27519 *	US-PATENT-CLASS-307-215	c 10	N71-28860 *	US-PATENT-CLASS-307-265	c 09	N71-29139 *
US-PATENT-CLASS-294-86R	c 18	N83-29303 *	US-PATENT-CLASS-307-215	c 09	N71-29139 *	US-PATENT-CLASS-307-265	c 33	N78-18308 *
US-PATENT-CLASS-294-88	c 37	N89-13785 *	US-PATENT-CLASS-307-215	c 10	N72-22236 *	US-PATENT-CLASS-307-267	c 09	N71-20447 *
US-PATENT-CLASS-294-902	c 37	N92-29138 *	US-PATENT-CLASS-307-215	c 09	N73-13209 *	US-PATENT-CLASS-307-267	c 33	N74-32711 *
US-PATENT-CLASS-294-907	c 37	N92-33018 *	US-PATENT-CLASS-307-215	c 33	N74-22814 *	US-PATENT-CLASS-307-267	c 33	N75-18479 *
US-PATENT-CLASS-294-93	c 54	N81-26718 *	US-PATENT-CLASS-307-216	c 08	N71-18751 *	US-PATENT-CLASS-307-268	c 09	N69-24317 *
US-PATENT-CLASS-296-1S	c 85	N82-33288 *	US-PATENT-CLASS-307-219	c 35	N75-30504 *	US-PATENT-CLASS-307-269	c 60	N81-15706 *
US-PATENT-CLASS-296-1S	c 02	N88-14071 *	US-PATENT-CLASS-307-219	c 60	N81-15706 *	US-PATENT-CLASS-307-270	c 33	N78-17294 *
US-PATENT-CLASS-296-100	c 37	N87-17036 *	US-PATENT-CLASS-307-220	c 10	N73-26229 *	US-PATENT-CLASS-307-270	c 33	N86-20672 *
US-PATENT-CLASS-296-20	c 85	N87-21755 *	US-PATENT-CLASS-307-221R	c 10	N73-20254 *	US-PATENT-CLASS-307-271	c 10	N73-32145 *
US-PATENT-CLASS-296-24C	c 85	N82-33288 *	US-PATENT-CLASS-307-221R	c 33	N76-14373 *	US-PATENT-CLASS-307-271	c 33	N85-29145 *
US-PATENT-CLASS-296-91	c 85	N82-33288 *	US-PATENT-CLASS-307-222	c 09	N69-27463 *	US-PATENT-CLASS-307-272.1	c 33	N92-16196 *
US-PATENT-CLASS-297-DIG.5	c 03	N84-33394 *	US-PATENT-CLASS-307-222	c 08	N71-29034 *	US-PATENT-CLASS-307-273	c 10	N71-18723 *
US-PATENT-CLASS-297-216	c 05	N70-35152 *	US-PATENT-CLASS-307-223B	c 09	N72-22201 *	US-PATENT-CLASS-307-273	c 09	N71-27016 *
US-PATENT-CLASS-297-216	c 37	N88-23982 *	US-PATENT-CLASS-307-223	c 09	N72-17157 *	US-PATENT-CLASS-307-273	c 09	N71-28468 *
US-PATENT-CLASS-297-232	c 05	N72-11085 *	US-PATENT-CLASS-307-225R	c 33	N74-10223 *	US-PATENT-CLASS-307-273	c 10	N71-28860 *
US-PATENT-CLASS-297-385	c 05	N71-12341 *	US-PATENT-CLASS-307-225R	c 33	N77-24375 *	US-PATENT-CLASS-307-273	c 09	N71-29139 *
US-PATENT-CLASS-297-385	c 05	N75-25915 *	US-PATENT-CLASS-307-225R	c 33	N77-24375 *	US-PATENT-CLASS-307-273	c 10	N72-20221 *
US-PATENT-CLASS-297-386	c 15	N73-30460 *	US-PATENT-CLASS-307-225R	c 60	N81-15706 *	US-PATENT-CLASS-307-280	c 33	N77-21314 *
US-PATENT-CLASS-297-388	c 05	N75-25915 *	US-PATENT-CLASS-307-227	c 09	N72-17157 *	US-PATENT-CLASS-307-284	c 09	N72-22201 *
US-PATENT-CLASS-297-389	c 05	N75-25915 *	US-PATENT-CLASS-307-227	c 33	N75-19522 *	US-PATENT-CLASS-307-288	c 09	N71-23015 *
US-PATENT-CLASS-297-68	c 05	N71-12343 *	US-PATENT-CLASS-307-229	c 09	N71-12520 *	US-PATENT-CLASS-307-288	c 09	N71-28468 *
US-PATENT-CLASS-297-68	c 05	N72-11085 *	US-PATENT-CLASS-307-229	c 09	N72-23173 *	US-PATENT-CLASS-307-288	c 10	N72-20221 *
US-PATENT-CLASS-299-13	c 43	N81-26509 *	US-PATENT-CLASS-307-229	c 33	N75-18479 *	US-PATENT-CLASS-307-288	c 09	N72-22202 *
US-PATENT-CLASS-299-17	c 43	N81-26509 *	US-PATENT-CLASS-307-229	c 33	N77-17354 *	US-PATENT-CLASS-307-289	c 10	N71-19547 *
US-PATENT-CLASS-299-1	c 43	N79-26439 *	US-PATENT-CLASS-307-229	c 33	N78-32339 *	US-PATENT-CLASS-307-28	c 03	N73-31988 *
US-PATENT-CLASS-299-1	c 35	N84-33768 *	US-PATENT-CLASS-307-230	c 10	N72-16172 *	US-PATENT-CLASS-307-290	c 33	N74-22814 *
US-PATENT-CLASS-299-20	c 43	N81-26509 *	US-PATENT-CLASS-307-230	c 09	N72-21245 *	US-PATENT-CLASS-307-291	c 60	N81-15706 *
US-PATENT-CLASS-299-67	c 46	N74-23068 *	US-PATENT-CLASS-307-230	c 09	N73-20232 *	US-PATENT-CLASS-307-294	c 09	N71-29139 *

US-PATENT-CLASS-307-295	c 10	N72-17171 *	US-PATENT-CLASS-308-10	c 37	N77-17464 *	US-PATENT-CLASS-310-168	c 33	N77-26387 *
US-PATENT-CLASS-307-295	c 10	N72-20223 *	US-PATENT-CLASS-308-10	c 44	N78-24608 *	US-PATENT-CLASS-310-171	c 35	N84-28017 *
US-PATENT-CLASS-307-295	c 09	N72-21245 *	US-PATENT-CLASS-308-10	c 37	N78-27422 *	US-PATENT-CLASS-310-178	c 44	N78-24608 *
US-PATENT-CLASS-307-295	c 09	N72-33204 *	US-PATENT-CLASS-308-10	c 35	N79-26372 *	US-PATENT-CLASS-310-200	c 71	N79-20827 *
US-PATENT-CLASS-307-295	c 33	N74-34638 *	US-PATENT-CLASS-308-10	c 71	N81-15767 *	US-PATENT-CLASS-310-222	c 31	N85-21404 *
US-PATENT-CLASS-307-295	c 33	N77-13315 *	US-PATENT-CLASS-308-10	c 44	N83-28574 *	US-PATENT-CLASS-310-231	c 33	N79-20314 *
US-PATENT-CLASS-307-296.2	c 33	N92-16196 *	US-PATENT-CLASS-308-10	c 37	N83-32067 *	US-PATENT-CLASS-310-254	c 09	N71-25999 *
US-PATENT-CLASS-307-296.7	c 33	N92-16196 *	US-PATENT-CLASS-308-10	c 37	N83-34323 *	US-PATENT-CLASS-310-265	c 33	N92-15331 *
US-PATENT-CLASS-307-296	c 08	N71-12494 *	US-PATENT-CLASS-308-10	c 71	N83-36846 *	US-PATENT-CLASS-310-269	c 44	N78-24608 *
US-PATENT-CLASS-307-296	c 07	N71-28430 *	US-PATENT-CLASS-308-10	c 37	N85-20337 *	US-PATENT-CLASS-310-26	c 71	N79-20827 *
US-PATENT-CLASS-307-297	c 33	N78-17294 *	US-PATENT-CLASS-308-121	c 37	N74-32921 *	US-PATENT-CLASS-310-26	c 33	N92-15331 *
US-PATENT-CLASS-307-299	c 08	N72-21198 *	US-PATENT-CLASS-308-121	c 37	N75-30562 *	US-PATENT-CLASS-310-2	c 03	N72-23048 *
US-PATENT-CLASS-307-299	c 26	N72-21701 *	US-PATENT-CLASS-308-121	c 37	N79-10418 *	US-PATENT-CLASS-310-300	c 71	N84-23233 *
US-PATENT-CLASS-307-29	c 03	N73-31988 *	US-PATENT-CLASS-308-122	c 37	N76-15461 *	US-PATENT-CLASS-310-306	c 33	N80-18287 *
US-PATENT-CLASS-307-300	c 10	N71-27126 *	US-PATENT-CLASS-308-160	c 37	N76-15461 *	US-PATENT-CLASS-310-306	c 44	N83-32175 *
US-PATENT-CLASS-307-303	c 08	N72-21198 *	US-PATENT-CLASS-308-160	c 37	N76-29588 *	US-PATENT-CLASS-310-306	c 34	N85-29179 *
US-PATENT-CLASS-307-303	c 33	N92-16196 *	US-PATENT-CLASS-308-160	c 37	N79-10418 *	US-PATENT-CLASS-310-306	c 37	N87-23970 *
US-PATENT-CLASS-307-304	c 09	N72-22201 *	US-PATENT-CLASS-308-163	c 37	N76-29588 *	US-PATENT-CLASS-310-308	c 33	N92-22042 *
US-PATENT-CLASS-307-304	c 09	N73-20232 *	US-PATENT-CLASS-308-163	c 37	N79-10418 *	US-PATENT-CLASS-310-309	c 33	N92-22042 *
US-PATENT-CLASS-307-304	c 33	N74-34638 *	US-PATENT-CLASS-308-168	c 24	N79-17916 *	US-PATENT-CLASS-310-30	c 44	N80-29834 *
US-PATENT-CLASS-307-305	c 09	N72-23171 *	US-PATENT-CLASS-308-170	c 15	N71-28465 *	US-PATENT-CLASS-310-30	c 33	N87-23904 *
US-PATENT-CLASS-307-306	c 33	N78-13320 *	US-PATENT-CLASS-308-170	c 37	N76-29588 *	US-PATENT-CLASS-310-311	c 35	N80-20559 *
US-PATENT-CLASS-307-306	c 33	N81-17348 *	US-PATENT-CLASS-308-171	c 24	N79-17916 *	US-PATENT-CLASS-310-317	c 35	N84-22932 *
US-PATENT-CLASS-307-308	c 14	N73-28488 *	US-PATENT-CLASS-308-172	c 37	N79-10418 *	US-PATENT-CLASS-310-319	c 33	N80-23559 *
US-PATENT-CLASS-307-309	c 35	N75-13213 *	US-PATENT-CLASS-308-174	c 54	N75-12616 *	US-PATENT-CLASS-310-322	c 71	N79-20827 *
US-PATENT-CLASS-307-310	c 09	N73-14214 *	US-PATENT-CLASS-308-176	c 15	N71-22982 *	US-PATENT-CLASS-310-323	c 71	N91-14808 *
US-PATENT-CLASS-307-311	c 14	N72-18411 *	US-PATENT-CLASS-308-177	c 15	N71-29136 *	US-PATENT-CLASS-310-324	c 33	N86-20671 *
US-PATENT-CLASS-307-311	c 08	N72-21198 *	US-PATENT-CLASS-308-187	c 15	N71-26189 *	US-PATENT-CLASS-310-325	c 71	N91-14808 *
US-PATENT-CLASS-307-311	c 09	N73-14214 *	US-PATENT-CLASS-308-188	c 15	N73-30458 *	US-PATENT-CLASS-310-326	c 38	N79-14398 *
US-PATENT-CLASS-307-311	c 33	N92-16196 *	US-PATENT-CLASS-308-188	c 37	N74-21064 *	US-PATENT-CLASS-310-327	c 35	N80-20559 *
US-PATENT-CLASS-307-313	c 10	N72-20221 *	US-PATENT-CLASS-308-191	c 37	N74-21064 *	US-PATENT-CLASS-310-330	c 76	N91-14872 *
US-PATENT-CLASS-307-317	c 09	N72-22200 *	US-PATENT-CLASS-308-191	c 37	N75-31446 *	US-PATENT-CLASS-310-331	c 76	N91-14872 *
US-PATENT-CLASS-307-317	c 09	N72-22201 *	US-PATENT-CLASS-308-193	c 15	N73-30458 *	US-PATENT-CLASS-310-332	c 76	N83-34796 *
US-PATENT-CLASS-307-31	c 44	N87-21410 *	US-PATENT-CLASS-308-194	c 37	N79-11404 *	US-PATENT-CLASS-310-334	c 71	N79-20827 *
US-PATENT-CLASS-307-321	c 33	N75-19520 *	US-PATENT-CLASS-308-195	c 15	N72-22490 *	US-PATENT-CLASS-310-334	c 35	N80-20559 *
US-PATENT-CLASS-307-321	c 33	N75-25041 *	US-PATENT-CLASS-308-195	c 37	N75-31446 *	US-PATENT-CLASS-310-334	c 35	N84-22932 *
US-PATENT-CLASS-307-322	c 10	N72-22236 *	US-PATENT-CLASS-308-195	c 37	N77-32500 *	US-PATENT-CLASS-310-334	c 71	N91-14808 *
US-PATENT-CLASS-307-323	c 10	N72-22236 *	US-PATENT-CLASS-308-195	c 37	N77-32501 *	US-PATENT-CLASS-310-336	c 38	N79-14398 *
US-PATENT-CLASS-307-350	c 33	N78-18308 *	US-PATENT-CLASS-308-1	c 31	N71-26537 *	US-PATENT-CLASS-310-338	c 35	N89-14407 *
US-PATENT-CLASS-307-352	c 33	N81-27396 *	US-PATENT-CLASS-308-2A	c 15	N72-26371 *	US-PATENT-CLASS-310-339	c 76	N91-14872 *
US-PATENT-CLASS-307-353	c 33	N81-27396 *	US-PATENT-CLASS-308-2A	c 15	N73-12488 *	US-PATENT-CLASS-310-340	c 76	N91-14872 *
US-PATENT-CLASS-307-353	c 33	N91-26438 *	US-PATENT-CLASS-308-2A	c 37	N84-12492 *	US-PATENT-CLASS-310-360	c 35	N80-20559 *
US-PATENT-CLASS-307-354	c 33	N87-21235 *	US-PATENT-CLASS-308-201	c 37	N75-31446 *	US-PATENT-CLASS-310-366	c 35	N84-22932 *
US-PATENT-CLASS-307-35	c 33	N74-34638 *	US-PATENT-CLASS-308-2	c 15	N71-23812 *	US-PATENT-CLASS-310-4A	c 37	N77-19458 *
US-PATENT-CLASS-307-360	c 33	N78-18308 *	US-PATENT-CLASS-308-35	c 15	N73-32359 *	US-PATENT-CLASS-310-4R	c 33	N74-27683 *
US-PATENT-CLASS-307-38	c 03	N73-31988 *	US-PATENT-CLASS-308-5R	c 37	N77-28486 *	US-PATENT-CLASS-310-4R	c 73	N77-18891 *
US-PATENT-CLASS-307-415	c 33	N82-24418 *	US-PATENT-CLASS-308-5R	c 37	N79-10418 *	US-PATENT-CLASS-310-40	c 20	N75-24837 *
US-PATENT-CLASS-307-425	c 36	N87-25567 *	US-PATENT-CLASS-308-5	c 15	N71-10617 *	US-PATENT-CLASS-310-42	c 14	N72-22439 *
US-PATENT-CLASS-307-490	c 33	N87-22895 *	US-PATENT-CLASS-308-5	c 15	N72-11388 *	US-PATENT-CLASS-310-46	c 33	N79-20314 *
US-PATENT-CLASS-307-520	c 33	N85-29145 *	US-PATENT-CLASS-308-5	c 15	N72-17451 *	US-PATENT-CLASS-310-4	c 09	N69-21313 *
US-PATENT-CLASS-307-521	c 33	N85-29145 *	US-PATENT-CLASS-308-72	c 37	N76-15461 *	US-PATENT-CLASS-310-4	c 03	N69-39898 *
US-PATENT-CLASS-307-529	c 33	N85-29145 *	US-PATENT-CLASS-308-72	c 37	N77-32500 *	US-PATENT-CLASS-310-4	c 09	N69-39929 *
US-PATENT-CLASS-307-53	c 10	N71-26626 *	US-PATENT-CLASS-308-72	c 37	N79-11404 *	US-PATENT-CLASS-310-4	c 03	N70-34134 *
US-PATENT-CLASS-307-53	c 33	N78-17296 *	US-PATENT-CLASS-308-73	c 37	N74-21061 *	US-PATENT-CLASS-310-4	c 03	N71-11055 *
US-PATENT-CLASS-307-566	c 33	N86-20672 *	US-PATENT-CLASS-308-73	c 37	N75-30562 *	US-PATENT-CLASS-310-4	c 22	N71-23599 *
US-PATENT-CLASS-307-570	c 33	N86-20672 *	US-PATENT-CLASS-308-73	c 37	N76-15461 *	US-PATENT-CLASS-310-4	c 09	N71-24807 *
US-PATENT-CLASS-307-572	c 33	N86-20672 *	US-PATENT-CLASS-308-73	c 37	N77-28486 *	US-PATENT-CLASS-310-4	c 33	N71-27862 *
US-PATENT-CLASS-307-63	c 44	N80-14472 *	US-PATENT-CLASS-308-78	c 24	N79-17916 *	US-PATENT-CLASS-310-4	c 09	N71-28421 *
US-PATENT-CLASS-307-64	c 33	N77-30365 *	US-PATENT-CLASS-308-87R	c 24	N79-17916 *	US-PATENT-CLASS-310-4	c 09	N72-25260 *
US-PATENT-CLASS-307-64	c 44	N85-21769 *	US-PATENT-CLASS-308-9	c 15	N70-34664 *	US-PATENT-CLASS-310-4	c 09	N72-27228 *
US-PATENT-CLASS-307-64	c 44	N87-21410 *	US-PATENT-CLASS-308-9	c 15	N70-38620 *	US-PATENT-CLASS-310-4	c 20	N75-24837 *
US-PATENT-CLASS-307-66	c 44	N80-14472 *	US-PATENT-CLASS-308-9	c 15	N70-39896 *	US-PATENT-CLASS-310-4	c 36	N75-30524 *
US-PATENT-CLASS-307-66	c 44	N85-21769 *	US-PATENT-CLASS-308-9	c 15	N71-20739 *	US-PATENT-CLASS-310-4	c 44	N76-16612 *
US-PATENT-CLASS-307-66	c 44	N87-21410 *	US-PATENT-CLASS-308-9	c 14	N71-26627 *	US-PATENT-CLASS-310-51	c 15	N71-27169 *
US-PATENT-CLASS-307-69	c 33	N78-17296 *	US-PATENT-CLASS-308-9	c 15	N72-17451 *	US-PATENT-CLASS-310-52	c 20	N75-24837 *
US-PATENT-CLASS-307-80	c 44	N87-21410 *	US-PATENT-CLASS-308-9	c 15	N73-32359 *	US-PATENT-CLASS-310-54	c 09	N71-20446 *
US-PATENT-CLASS-307-81	c 09	N72-17157 *	US-PATENT-CLASS-308-9	c 37	N76-15461 *	US-PATENT-CLASS-310-5	c 03	N70-35408 *
US-PATENT-CLASS-307-82	c 33	N79-24254 *	US-PATENT-CLASS-308-9	c 37	N77-28486 *	US-PATENT-CLASS-310-68B	c 35	N84-28017 *
US-PATENT-CLASS-307-82	c 33	N85-29147 *	US-PATENT-CLASS-308-9	c 37	N79-10418 *	US-PATENT-CLASS-310-68	c 15	N72-25456 *
US-PATENT-CLASS-307-83	c 09	N72-25262 *	US-PATENT-CLASS-31-35	c 31	N85-21404 *	US-PATENT-CLASS-310-77	c 37	N85-30333 *
US-PATENT-CLASS-307-87	c 33	N84-33660 *	US-PATENT-CLASS-310-101	c 15	N71-24696 *	US-PATENT-CLASS-310-8.2	c 35	N76-15432 *
US-PATENT-CLASS-307-88.3	c 09	N72-25258 *	US-PATENT-CLASS-310-10	c 03	N69-39890 *	US-PATENT-CLASS-310-8.5	c 14	N71-22993 *
US-PATENT-CLASS-307-88.5	c 09	N70-34819 *	US-PATENT-CLASS-310-10	c 09	N71-23443 *	US-PATENT-CLASS-310-800	c 76	N83-34796 *
US-PATENT-CLASS-307-88.5	c 09	N70-40272 *	US-PATENT-CLASS-310-10	c 09	N71-24904 *	US-PATENT-CLASS-310-80	c 15	N72-25456 *
US-PATENT-CLASS-307-88.5	c 09	N70-41675 *	US-PATENT-CLASS-310-10	c 09	N72-25255 *	US-PATENT-CLASS-310-82	c 33	N79-20314 *
US-PATENT-CLASS-307-88.5	c 10	N70-42032 *	US-PATENT-CLASS-310-10	c 20	N75-24837 *	US-PATENT-CLASS-310-82	c 37	N92-33634 *
US-PATENT-CLASS-307-88.5	c 09	N71-10673 *	US-PATENT-CLASS-310-111	c 33	N77-26387 *	US-PATENT-CLASS-310-83	c 15	N72-25456 *
US-PATENT-CLASS-307-88.5	c 10	N71-15910 *	US-PATENT-CLASS-310-112	c 37	N92-33634 *	US-PATENT-CLASS-310-83	c 33	N92-15331 *
US-PATENT-CLASS-307-88.5	c 10	N71-16042 *	US-PATENT-CLASS-310-11	c 25	N69-21929 *	US-PATENT-CLASS-310-9.1	c 15	N71-21311 *
US-PATENT-CLASS-307-88.5	c 10	N71-28739 *	US-PATENT-CLASS-310-11	c 03	N69-39983 *	US-PATENT-CLASS-310-90.5	c 37	N87-17038 *
US-PATENT-CLASS-307-88MP	c 09	N72-22197 *	US-PATENT-CLASS-310-11	c 03	N70-36803 *	US-PATENT-CLASS-310-90.5	c 37	N91-21539 *
US-PATENT-CLASS-307-88	c 08	N70-34743 *	US-PATENT-CLASS-310-11	c 14	N72-22439 *	US-PATENT-CLASS-310-90.5	c 70	N91-21824 *
US-PATENT-CLASS-307-88	c 09	N70-38604 *	US-PATENT-CLASS-310-11	c 12	N72-25292 *	US-PATENT-CLASS-310-90.5	c 37	N92-29099 *
US-PATENT-CLASS-307-88	c 09	N71-24803 *	US-PATENT-CLASS-310-11	c 35	N74-21018 *	US-PATENT-CLASS-310-93	c 15	N71-17652 *
US-PATENT-CLASS-307-88	c 09	N71-26000 *	US-PATENT-CLASS-310-11	c 36	N75-32441 *	US-PATENT-CLASS-310-93	c 37	N85-30333 *
US-PATENT-CLASS-307-92	c 09	N72-27227 *	US-PATENT-CLASS-310-11	c 44	N83-28573 *	US-PATENT-CLASS-311-37	c 35	N75-29380 *
US-PATENT-CLASS-307-98	c 33	N79-28415 *	US-PATENT-CLASS-310-11	c 27	N91-14489 *	US-PATENT-CLASS-312-196	c 54	N88-24163 *
US-PATENT-CLASS-308-DIG.1	c 15	N72-17451 *	US-PATENT-CLASS-310-12	c 33	N82-24421 *	US-PATENT-CLASS-312-1	c 05	N71-23080 *
US-PATENT-CLASS-308-DIG.1	c 37	N79-10418 *	US-PATENT-CLASS-310-12	c 37	N83-32067 *	US-PATENT-CLASS-312-1	c 05	N73-20137 *
US-PATENT-CLASS-308-DIG.8	c 24	N79-17916 *	US-PATENT-CLASS-310-153	c 44	N78-24608 *	US-PATENT-CLASS-312-1	c 37	N74-20063 *
US-PATENT-CLASS-308-DIG.9	c 24	N79-17916 *	US-PATENT-CLASS-310-154	c 44	N78-24608 *	US-PATENT-CLASS-312-208	c 54	N88-24163 *
US-PATENT-CLASS-308-10	c 15	N71-22997 *	US-PATENT-CLASS-310-154	c 35	N84-28017 *	US-PATENT-CLASS-312-209	c 37	N74-18123 *
US-PATENT-CLASS-308-10	c 15	N72-33476 *	US-PATENT-CLASS-310-15	c 09	N72-25255 *	US-PATENT-CLASS-312-257	c 31	N72-22874 *
US-PATENT-CLASS-308-10	c 35	N74-18323 *	US-PATENT-CLASS-310-15	c 44	N83-28574 *	US-PATENT-CLASS-312-296	c 09	N71-18600 *
US-PATENT-CLASS-308-10	c 37	N75-18574 *	US-PATENT-CLASS-310-15	c 33	N87-23904 *	US-PATENT-CLASS-312-300	c 54	N88-24163 *
US-PATENT-CLASS-308-10	c 37	N76-18459 *	US-PATENT-CLASS-310-168	c 09	N71-25999 *	US-PATENT-CLASS-312-319	c 37	N79-33467 *

US-PATENT-CLASS-312-7.2	c 54	N88-24163 *	US-PATENT-CLASS-313-506	c 74	N91-31950 *	US-PATENT-CLASS-315-276	c 33	N88-23942 *
US-PATENT-CLASS-313-DIG.8	c 28	N73-24783 *	US-PATENT-CLASS-313-509	c 33	N87-28831 *	US-PATENT-CLASS-315-277	c 33	N88-23942 *
US-PATENT-CLASS-313-104	c 14	N73-32317 *	US-PATENT-CLASS-313-509	c 74	N91-31950 *	US-PATENT-CLASS-315-297	c 14	N72-27411 *
US-PATENT-CLASS-313-106	c 24	N83-10117 *	US-PATENT-CLASS-313-60	c 33	N77-22386 *	US-PATENT-CLASS-315-3	c 09	N73-13208 *
US-PATENT-CLASS-313-106	c 70	N84-28565 *	US-PATENT-CLASS-313-61S	c 73	N74-26767 *	US-PATENT-CLASS-315-3.5	c 33	N79-10339 *
US-PATENT-CLASS-313-106	c 31	N86-32587 *	US-PATENT-CLASS-313-61S	c 37	N78-14346 *	US-PATENT-CLASS-315-3.5	c 33	N82-26568 *
US-PATENT-CLASS-313-107	c 24	N83-10117 *	US-PATENT-CLASS-313-63	c 28	N70-41576 *	US-PATENT-CLASS-315-3.5	c 33	N84-16452 *
US-PATENT-CLASS-313-107	c 70	N84-28565 *	US-PATENT-CLASS-313-63	c 09	N71-10618 *	US-PATENT-CLASS-315-3.5	c 37	N85-33489 *
US-PATENT-CLASS-313-107	c 31	N86-32587 *	US-PATENT-CLASS-313-63	c 28	N71-26781 *	US-PATENT-CLASS-315-3.5	c 33	N86-21742 *
US-PATENT-CLASS-313-109.5	c 09	N71-33519 *	US-PATENT-CLASS-313-63	c 28	N73-24783 *	US-PATENT-CLASS-315-3.5	c 33	N90-22724 *
US-PATENT-CLASS-313-11.5	c 28	N70-39925 *	US-PATENT-CLASS-313-63	c 28	N73-27699 *	US-PATENT-CLASS-315-3.6	c 33	N79-10339 *
US-PATENT-CLASS-313-110	c 09	N71-12521 *	US-PATENT-CLASS-313-63	c 75	N75-13625 *	US-PATENT-CLASS-315-3.6	c 33	N82-24415 *
US-PATENT-CLASS-313-131A	c 33	N85-21491 *	US-PATENT-CLASS-313-7	c 14	N71-18482 *	US-PATENT-CLASS-315-3.6	c 33	N82-26568 *
US-PATENT-CLASS-313-146	c 33	N77-22386 *	US-PATENT-CLASS-313-7	c 14	N73-32324 *	US-PATENT-CLASS-315-3.6	c 33	N84-16452 *
US-PATENT-CLASS-313-153	c 33	N74-12913 *	US-PATENT-CLASS-313-93	c 35	N74-26949 *	US-PATENT-CLASS-315-3.6	c 33	N84-27974 *
US-PATENT-CLASS-313-156	c 25	N70-34661 *	US-PATENT-CLASS-313-93	c 35	N82-24471 *	US-PATENT-CLASS-315-3.6	c 33	N86-21742 *
US-PATENT-CLASS-313-156	c 72	N80-27163 *	US-PATENT-CLASS-313-94	c 33	N73-31409 *	US-PATENT-CLASS-315-30R	c 10	N72-31273 *
US-PATENT-CLASS-313-161	c 25	N73-25760 *	US-PATENT-CLASS-313-94	c 74	N78-18905 *	US-PATENT-CLASS-315-307	c 14	N72-27411 *
US-PATENT-CLASS-313-161	c 09	N73-30181 *	US-PATENT-CLASS-314-129	c 15	N69-24266 *	US-PATENT-CLASS-315-30	c 33	N75-27250 *
US-PATENT-CLASS-313-161	c 33	N77-21315 *	US-PATENT-CLASS-315-DIG.2	c 16	N73-32391 *	US-PATENT-CLASS-315-310	c 14	N72-27411 *
US-PATENT-CLASS-313-175	c 33	N77-21316 *	US-PATENT-CLASS-315-101	c 16	N73-32391 *	US-PATENT-CLASS-315-311	c 14	N72-27411 *
US-PATENT-CLASS-313-175	c 31	N78-17238 *	US-PATENT-CLASS-315-108	c 09	N71-33519 *	US-PATENT-CLASS-315-324	c 09	N73-30181 *
US-PATENT-CLASS-313-176	c 31	N78-17238 *	US-PATENT-CLASS-315-108	c 33	N77-21316 *	US-PATENT-CLASS-315-326	c 25	N72-24753 *
US-PATENT-CLASS-313-180	c 33	N77-21316 *	US-PATENT-CLASS-315-108	c 36	N78-17366 *	US-PATENT-CLASS-315-334	c 33	N80-14330 *
US-PATENT-CLASS-313-180	c 31	N78-17238 *	US-PATENT-CLASS-315-10	c 33	N74-21850 *	US-PATENT-CLASS-315-344	c 33	N77-21315 *
US-PATENT-CLASS-313-182	c 33	N77-22386 *	US-PATENT-CLASS-315-10	c 33	N75-26244 *	US-PATENT-CLASS-315-349	c 09	N72-25250 *
US-PATENT-CLASS-313-184	c 33	N77-21315 *	US-PATENT-CLASS-315-110	c 33	N77-21316 *	US-PATENT-CLASS-315-356	c 16	N73-32391 *
US-PATENT-CLASS-313-184	c 33	N77-21316 *	US-PATENT-CLASS-315-11.2	c 75	N78-27913 *	US-PATENT-CLASS-315-358	c 25	N72-24753 *
US-PATENT-CLASS-313-184	c 31	N78-17238 *	US-PATENT-CLASS-315-111.31	c 33	N85-21491 *	US-PATENT-CLASS-315-367	c 33	N75-26244 *
US-PATENT-CLASS-313-186	c 25	N72-24753 *	US-PATENT-CLASS-315-111.3	c 20	N77-10148 *	US-PATENT-CLASS-315-369	c 33	N75-26244 *
US-PATENT-CLASS-313-209	c 33	N74-12913 *	US-PATENT-CLASS-315-111.3	c 20	N77-20162 *	US-PATENT-CLASS-315-36	c 10	N72-27246 *
US-PATENT-CLASS-313-212	c 25	N72-24753 *	US-PATENT-CLASS-315-111.41	c 72	N88-24253 *	US-PATENT-CLASS-315-387	c 33	N75-26244 *
US-PATENT-CLASS-313-217	c 28	N73-27699 *	US-PATENT-CLASS-315-111.6	c 75	N76-14931 *	US-PATENT-CLASS-315-39.3	c 33	N84-16452 *
US-PATENT-CLASS-313-217	c 33	N74-12913 *	US-PATENT-CLASS-315-111.6	c 20	N77-20162 *	US-PATENT-CLASS-315-39.3	c 33	N84-27974 *
US-PATENT-CLASS-313-218	c 28	N73-27699 *	US-PATENT-CLASS-315-111.71	c 72	N88-24253 *	US-PATENT-CLASS-315-39.3	c 33	N86-21742 *
US-PATENT-CLASS-313-224	c 25	N72-24753 *	US-PATENT-CLASS-315-111.81	c 33	N85-21491 *	US-PATENT-CLASS-315-3	c 33	N83-31952 *
US-PATENT-CLASS-313-224	c 33	N74-12913 *	US-PATENT-CLASS-315-111.81	c 33	N87-21234 *	US-PATENT-CLASS-315-3	c 33	N90-22724 *
US-PATENT-CLASS-313-224	c 33	N77-21315 *	US-PATENT-CLASS-315-111.81	c 72	N88-24253 *	US-PATENT-CLASS-315.4	c 33	N83-31952 *
US-PATENT-CLASS-313-224	c 31	N78-17238 *	US-PATENT-CLASS-315-111	c 25	N70-33267 *	US-PATENT-CLASS-315-5.35	c 33	N74-10195 *
US-PATENT-CLASS-313-22	c 09	N71-26787 *	US-PATENT-CLASS-315-111	c 25	N70-41628 *	US-PATENT-CLASS-315-5.35	c 33	N83-31952 *
US-PATENT-CLASS-313-22	c 31	N78-17237 *	US-PATENT-CLASS-315-111	c 25	N71-15562 *	US-PATENT-CLASS-315-5.38	c 09	N73-13208 *
US-PATENT-CLASS-313-22	c 31	N78-25256 *	US-PATENT-CLASS-315-111	c 24	N71-16213 *	US-PATENT-CLASS-315-5.38	c 33	N74-10195 *
US-PATENT-CLASS-313-22	c 34	N79-20336 *	US-PATENT-CLASS-315-111	c 25	N71-21693 *	US-PATENT-CLASS-315-5.38	c 33	N82-24415 *
US-PATENT-CLASS-313-230	c 28	N71-28850 *	US-PATENT-CLASS-315-111	c 28	N71-26781 *	US-PATENT-CLASS-315-5.38	c 24	N83-10117 *
US-PATENT-CLASS-313-230	c 28	N73-27699 *	US-PATENT-CLASS-315-111	c 25	N71-29184 *	US-PATENT-CLASS-315-5.38	c 33	N83-31952 *
US-PATENT-CLASS-313-230	c 20	N77-20162 *	US-PATENT-CLASS-315-111	c 09	N71-33519 *	US-PATENT-CLASS-315-5.38	c 70	N84-28565 *
US-PATENT-CLASS-313-231.3	c 20	N77-20162 *	US-PATENT-CLASS-315-111	c 25	N72-24753 *	US-PATENT-CLASS-315-5.38	c 37	N85-33489 *
US-PATENT-CLASS-313-231.3	c 75	N78-27913 *	US-PATENT-CLASS-315-111	c 25	N72-32688 *	US-PATENT-CLASS-315-5.38	c 31	N86-32587 *
US-PATENT-CLASS-313-231.4	c 20	N77-10148 *	US-PATENT-CLASS-315-111	c 14	N73-30391 *	US-PATENT-CLASS-315-5	c 33	N83-31952 *
US-PATENT-CLASS-313-231.4	c 72	N80-33186 *	US-PATENT-CLASS-315-111	c 75	N75-13625 *	US-PATENT-CLASS-317-DIG.3	c 10	N71-26334 *
US-PATENT-CLASS-313-231	c 06	N69-39889 *	US-PATENT-CLASS-315-111	c 33	N75-29318 *	US-PATENT-CLASS-317-DIG.6	c 10	N73-26228 *
US-PATENT-CLASS-313-231	c 09	N71-23190 *	US-PATENT-CLASS-315-111	c 37	N75-29426 *	US-PATENT-CLASS-317-100	c 10	N71-28783 *
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US-PATENT-CLASS-313-231	c 25	N72-24753 *	US-PATENT-CLASS-315-12	c 33	N74-21850 *	US-PATENT-CLASS-317-101A	c 09	N72-33205 *
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US-PATENT-CLASS-313-231	c 28	N73-24783 *	US-PATENT-CLASS-315-145	c 33	N80-14330 *	US-PATENT-CLASS-317-101DH	c 15	N72-22486 *
US-PATENT-CLASS-313-231	c 25	N73-25760 *	US-PATENT-CLASS-315-151	c 14	N72-27411 *	US-PATENT-CLASS-317-101DH	c 10	N73-25243 *
US-PATENT-CLASS-313-236	c 09	N71-26182 *	US-PATENT-CLASS-315-153	c 14	N73-16483 *	US-PATENT-CLASS-317-101	c 09	N71-26133 *
US-PATENT-CLASS-313-237	c 09	N71-26182 *	US-PATENT-CLASS-315-153	c 74	N79-12890 *	US-PATENT-CLASS-317-117	c 15	N72-22486 *
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US-PATENT-CLASS-313-240	c 20	N77-10148 *	US-PATENT-CLASS-315-158	c 14	N72-27411 *	US-PATENT-CLASS-317-122	c 15	N71-18701 *
US-PATENT-CLASS-313-250	c 31	N76-31365 *	US-PATENT-CLASS-315-160	c 09	N71-12540 *	US-PATENT-CLASS-317-123	c 09	N71-24892 *
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US-PATENT-CLASS-313-278	c 33	N87-28832 *	US-PATENT-CLASS-315-169R	c 36	N75-19652 *	US-PATENT-CLASS-317-148.5	c 10	N71-23271 *
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US-PATENT-CLASS-313-309	c 10	N72-27246 *	US-PATENT-CLASS-315-172	c 33	N88-24862 *	US-PATENT-CLASS-317-153	c 10	N71-26334 *
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US-PATENT-CLASS-313-311	c 73	N77-18891 *	US-PATENT-CLASS-315-176	c 33	N77-28385 *	US-PATENT-CLASS-317-157.5	c 15	N69-21472 *
US-PATENT-CLASS-313-32	c 33	N74-12913 *	US-PATENT-CLASS-315-18	c 32	N74-20813 *	US-PATENT-CLASS-317-158	c 15	N73-28516 *
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US-PATENT-CLASS-313-348	c 35	N82-24471 *	US-PATENT-CLASS-315-209CD	c 37	N79-11405 *	US-PATENT-CLASS-317-16	c 33	N74-17929 *
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US-PATENT-CLASS-313-355	c 28	N73-27699 *	US-PATENT-CLASS-315-224	c 33	N83-34189 *	US-PATENT-CLASS-317-230	c 26	N72-28761 *
US-PATENT-CLASS-313-356	c 14	N72-29464 *	US-PATENT-CLASS-315-225	c 33	N83-34189 *	US-PATENT-CLASS-317-231	c 09	N71-27232 *
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US-PATENT-CLASS-313-35	c 34	N79-20336 *	US-PATENT-CLASS-315-228	c 33	N74-20859 *	US-PATENT-CLASS-317-234D	c 14	N72-31446 *
US-PATENT-CLASS-313-360	c 20	N77-20162 *	US-PATENT-CLASS-315-22	c 10	N72-20225 *	US-PATENT-CLASS-317-234E	c 33	N74-12951 *
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US-PATENT-CLASS-317-235AJ	c 09	N72-33205 *		US-PATENT-CLASS-318-327	c 11	N72-20244 *	US-PATENT-CLASS-318-806	c 33	N82-26569 *
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US-PATENT-CLASS-317-235	c 09	N69-24318 *	#	US-PATENT-CLASS-318-48	c 37	N86-27629 *	US-PATENT-CLASS-320-15	c 44	N78-14625 *
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US-PATENT-CLASS-317-238	c 09	N71-27232 *		US-PATENT-CLASS-318-561	c 33	N82-18493 *	US-PATENT-CLASS-320-17	c 03	N71-24605 *
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US-PATENT-CLASS-317-33SC	c 33	N74-14956 *		US-PATENT-CLASS-318-573	c 35	N79-14348 *	US-PATENT-CLASS-320-9	c 44	N78-25531 *
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US-PATENT-CLASS-317-33	c 09	N71-27001 *		US-PATENT-CLASS-318-573	c 63	N91-31885 *	US-PATENT-CLASS-321-10	c 09	N72-17154 *
US-PATENT-CLASS-317-33	c 10	N71-27366 *		US-PATENT-CLASS-318-576	c 09	N72-21246 *	US-PATENT-CLASS-321-11	c 09	N69-39984 *
US-PATENT-CLASS-317-33	c 09	N71-29008 *		US-PATENT-CLASS-318-577	c 37	N86-21850 *	US-PATENT-CLASS-321-11	c 09	N72-25252 *
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US-PATENT-CLASS-317-9	c 09	N71-22796 *		US-PATENT-CLASS-318-594	c 35	N79-14348 *	US-PATENT-CLASS-321-18	c 09	N72-22203 *
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US-PATENT-CLASS-318-138	c 09	N71-10677 *		US-PATENT-CLASS-318-618	c 33	N90-21951 *	US-PATENT-CLASS-321-2	c 03	N69-25146 *
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US-PATENT-CLASS-318-161	c 44	N87-21410 *		US-PATENT-CLASS-318-640	c 33	N75-13139 *	US-PATENT-CLASS-321-2	c 09	N72-25249 *
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US-PATENT-CLASS-318-20.105	c 08	N71-27057 *		US-PATENT-CLASS-318-640	c 08	N86-27288 *	US-PATENT-CLASS-321-2	c 09	N72-25254 *
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US-PATENT-CLASS-318-227	c 33	N78-10376 *		US-PATENT-CLASS-318-661	c 31	N86-29055 *	US-PATENT-CLASS-321-45R	c 09	N72-25252 *
US-PATENT-CLASS-318-22	c 15	N71-17694 *		US-PATENT-CLASS-318-663	c 37	N81-33483 *	US-PATENT-CLASS-321-45R	c 09	N72-25254 *
US-PATENT-CLASS-318-230	c 07	N71-33613 *		US-PATENT-CLASS-318-663	c 37	N86-27629 *	US-PATENT-CLASS-321-45R	c 33	N74-22864 *
US-PATENT-CLASS-318-230	c 10	N73-32145 *		US-PATENT-CLASS-318-664	c 33	N74-29556 *	US-PATENT-CLASS-321-45S	c 33	N74-11049 *
US-PATENT-CLASS-318-230	c 33	N75-15874 *		US-PATENT-CLASS-318-675	c 33	N75-13139 *	US-PATENT-CLASS-321-45S	c 09	N71-24800 *
US-PATENT-CLASS-318-230	c 33	N78-10376 *		US-PATENT-CLASS-318-675	c 37	N77-27400 *	US-PATENT-CLASS-321-45	c 09	N72-22203 *
US-PATENT-CLASS-318-231	c 10	N73-32145 *		US-PATENT-CLASS-318-685	c 33	N83-35227 *	US-PATENT-CLASS-321-47	c 09	N71-33109 *
US-PATENT-CLASS-318-231	c 33	N75-15874 *		US-PATENT-CLASS-318-729	c 33	N83-34190 *	US-PATENT-CLASS-321-47	c 09	N72-25253 *
US-PATENT-CLASS-318-254	c 09	N71-25999 *		US-PATENT-CLASS-318-729	c 33	N84-14424 *	US-PATENT-CLASS-321-48	c 12	N71-20896 *
US-PATENT-CLASS-318-254	c 09	N73-32107 *		US-PATENT-CLASS-318-729	c 33	N84-22885 *	US-PATENT-CLASS-321-5	c 08	N71-18752 *
US-PATENT-CLASS-318-254	c 33	N77-26386 *		US-PATENT-CLASS-318-729	c 33	N84-22886 *	US-PATENT-CLASS-321-60	c 14	N71-23174 *
US-PATENT-CLASS-318-254	c 33	N81-20352 *	#	US-PATENT-CLASS-318-729	c 33	N84-27975 *	US-PATENT-CLASS-321-61	c 09	N71-27364 *
US-PATENT-CLASS-318-254	c 33	N82-26569 *		US-PATENT-CLASS-318-729	c 33	N84-33661 *	US-PATENT-CLASS-321-64	c 09	N71-27364 *
US-PATENT-CLASS-318-254	c 33	N87-21233 *		US-PATENT-CLASS-318-729	c 44	N85-21769 *	US-PATENT-CLASS-321-69	c 10	N71-26414 *
US-PATENT-CLASS-318-257	c 10	N71-18724 *		US-PATENT-CLASS-318-729	c 33	N85-22877 *	US-PATENT-CLASS-321-8R	c 35	N74-18090 *
US-PATENT-CLASS-318-258	c 09	N71-26092 *		US-PATENT-CLASS-318-798	c 33	N83-34190 *	US-PATENT-CLASS-321-9	c 10	N71-25139 *
US-PATENT-CLASS-318-260	c 09	N70-38712 *		US-PATENT-CLASS-318-798	c 33	N83-35227 *	US-PATENT-CLASS-322-2R	c 07	N83-20944 *
US-PATENT-CLASS-318-265	c 15	N71-24895 *		US-PATENT-CLASS-318-798	c 33	N84-14424 *	US-PATENT-CLASS-322-25	c 33	N84-33660 *
US-PATENT-CLASS-318-267	c 37	N77-27400 *		US-PATENT-CLASS-318-798	c 33	N84-22885 *	US-PATENT-CLASS-322-29	c 33	N83-28319 *
US-PATENT-CLASS-318-308	c 11	N72-20244 *		US-PATENT-CLASS-318-799	c 33	N81-27395 *	US-PATENT-CLASS-322-29	c 33	N84-33660 *
US-PATENT-CLASS-318-314	c 10	N71-20448 *		US-PATENT-CLASS-318-799	c 33	N84-16455 *	US-PATENT-CLASS-322-2	c 03	N72-23048 *

US-PATENT-CLASS-322-35	c 33	N83-28319 *	US-PATENT-CLASS-324-158-D	c 33	N87-22894 *	US-PATENT-CLASS-324-57PS	c 35	N75-21582 *
US-PATENT-CLASS-322-47	c 33	N83-28319 *	US-PATENT-CLASS-324-158-R	c 33	N87-22894 *	US-PATENT-CLASS-324-57R	c 15	N72-21464 *
US-PATENT-CLASS-322-47	c 33	N84-33660 *	US-PATENT-CLASS-324-158D	c 15	N72-25457 *	US-PATENT-CLASS-324-57R	c 14	N73-30388 *
US-PATENT-CLASS-322-95	c 33	N83-28319 *	US-PATENT-CLASS-324-158D	c 76	N76-20994 *	US-PATENT-CLASS-324-57R	c 35	N74-18090 *
US-PATENT-CLASS-322-95	c 33	N84-33660 *	US-PATENT-CLASS-324-158D	c 44	N80-18551 *	US-PATENT-CLASS-324-57R	c 33	N79-10338 *
US-PATENT-CLASS-322-96	c 33	N77-26387 *	US-PATENT-CLASS-324-158D	c 76	N84-35112 *	US-PATENT-CLASS-324-57R	c 35	N79-14349 *
US-PATENT-CLASS-323-DIG.1	c 09	N72-21243 *	US-PATENT-CLASS-324-158D	c 76	N85-30923 *	US-PATENT-CLASS-324-57SS	c 33	N78-25319 *
US-PATENT-CLASS-323-DIG.1	c 09	N72-25249 *	US-PATENT-CLASS-324-158F	c 33	N91-14552 *	US-PATENT-CLASS-324-57	c 10	N71-16057 *
US-PATENT-CLASS-323-DIG.1	c 33	N74-11049 *	US-PATENT-CLASS-324-158P	c 33	N91-14552 *	US-PATENT-CLASS-324-57	c 09	N71-20569 *
US-PATENT-CLASS-323-DIG.1	c 33	N77-10428 *	US-PATENT-CLASS-324-158R	c 76	N76-20994 *	US-PATENT-CLASS-324-58.5A	c 33	N75-26245 *
US-PATENT-CLASS-323-106	c 33	N74-22885 *	US-PATENT-CLASS-324-158R	c 33	N85-30187 *	US-PATENT-CLASS-324-58.5B	c 43	N78-10529 *
US-PATENT-CLASS-323-122	c 33	N74-22885 *	US-PATENT-CLASS-324-158T	c 15	N72-25457 *	US-PATENT-CLASS-324-58.5C	c 33	N75-26245 *
US-PATENT-CLASS-323-128	c 33	N74-22885 *	US-PATENT-CLASS-324-158T	c 35	N75-12270 *	US-PATENT-CLASS-324-58.5	c 15	N71-17822 *
US-PATENT-CLASS-323-15	c 20	N79-20179 *	US-PATENT-CLASS-324-158T	c 76	N76-20994 *	US-PATENT-CLASS-324-58.5	c 25	N71-20563 *
US-PATENT-CLASS-323-15	c 44	N80-14472 *	US-PATENT-CLASS-324-158T	c 33	N80-14332 *	US-PATENT-CLASS-324-58.5	c 14	N71-26137 *
US-PATENT-CLASS-323-17	c 09	N72-25249 *	US-PATENT-CLASS-324-158T	c 76	N84-35112 *	US-PATENT-CLASS-324-58.5	c 18	N71-27397 *
US-PATENT-CLASS-323-17	c 33	N77-10428 *	US-PATENT-CLASS-324-158	c 09	N69-21926 *	US-PATENT-CLASS-324-58A	c 33	N78-25319 *
US-PATENT-CLASS-323-18	c 33	N78-17295 *	US-PATENT-CLASS-324-163	c 35	N77-30436 *	US-PATENT-CLASS-324-59	c 35	N77-32455 *
US-PATENT-CLASS-323-19	c 08	N72-31226 *	US-PATENT-CLASS-324-165	c 35	N77-30436 *	US-PATENT-CLASS-324-59	c 14	N71-28891 *
US-PATENT-CLASS-323-19	c 33	N78-17296 *	US-PATENT-CLASS-324-173	c 35	N78-32396 *	US-PATENT-CLASS-324-60C	c 35	N75-12270 *
US-PATENT-CLASS-323-19	c 44	N80-14472 *	US-PATENT-CLASS-324-174	c 35	N77-30436 *	US-PATENT-CLASS-324-60C	c 76	N76-20994 *
US-PATENT-CLASS-323-20	c 14	N71-27407 *	US-PATENT-CLASS-324-181	c 09	N71-24717 *	US-PATENT-CLASS-324-601	c 33	N91-14552 *
US-PATENT-CLASS-323-20	c 20	N79-20179 *	US-PATENT-CLASS-324-186	c 09	N72-25257 *	US-PATENT-CLASS-324-60	c 33	N77-31404 *
US-PATENT-CLASS-323-22T	c 09	N72-21243 *	US-PATENT-CLASS-324-186	c 52	N74-12778 *	US-PATENT-CLASS-324-61-R	c 35	N87-22953 *
US-PATENT-CLASS-323-22T	c 09	N72-25249 *	US-PATENT-CLASS-324-20R	c 09	N72-23172 *	US-PATENT-CLASS-324-61-R	c 35	N88-29149 *
US-PATENT-CLASS-323-22T	c 33	N77-10428 *	US-PATENT-CLASS-324-20R	c 44	N79-12541 *	US-PATENT-CLASS-324-61R	c 14	N72-24477 *
US-PATENT-CLASS-323-22T	c 33	N79-23345 *	US-PATENT-CLASS-324-205	c 70	N92-29130 *	US-PATENT-CLASS-324-61R	c 35	N76-22509 *
US-PATENT-CLASS-323-22	c 09	N71-21449 *	US-PATENT-CLASS-324-207	c 35	N78-32396 *	US-PATENT-CLASS-324-61	c 14	N69-39785 *
US-PATENT-CLASS-323-22	c 09	N71-23316 *	US-PATENT-CLASS-324-209	c 26	N90-21170 *	US-PATENT-CLASS-324-61	c 14	N70-36618 *
US-PATENT-CLASS-323-23	c 33	N77-10428 *	US-PATENT-CLASS-324-209	c 39	N92-29155 *	US-PATENT-CLASS-324-61	c 14	N71-10797 *
US-PATENT-CLASS-323-243	c 33	N84-16455 *	US-PATENT-CLASS-324-224	c 38	N92-29154 *	US-PATENT-CLASS-324-61	c 18	N71-27397 *
US-PATENT-CLASS-323-246	c 33	N84-16455 *	US-PATENT-CLASS-324-226	c 35	N86-32698 *	US-PATENT-CLASS-324-61	c 14	N72-22442 *
US-PATENT-CLASS-323-269	c 33	N83-27126 *	US-PATENT-CLASS-324-226	c 26	N90-21170 *	US-PATENT-CLASS-324-62R	c 14	N73-30388 *
US-PATENT-CLASS-323-300	c 33	N84-27975 *	US-PATENT-CLASS-324-226	c 39	N92-28757 *	US-PATENT-CLASS-324-62	c 33	N80-32650 *
US-PATENT-CLASS-323-303	c 33	N83-27126 *	US-PATENT-CLASS-324-226	c 38	N92-29154 *	US-PATENT-CLASS-324-62	c 33	N90-19492 *
US-PATENT-CLASS-323-311	c 33	N91-27479 *	US-PATENT-CLASS-324-226	c 39	N92-29155 *	US-PATENT-CLASS-324-64	c 15	N72-21464 *
US-PATENT-CLASS-323-312	c 33	N91-27479 *	US-PATENT-CLASS-324-227	c 26	N90-21170 *	US-PATENT-CLASS-324-64	c 33	N80-32650 *
US-PATENT-CLASS-323-350	c 33	N83-27126 *	US-PATENT-CLASS-324-227	c 39	N92-29155 *	US-PATENT-CLASS-324-65-P	c 35	N85-34373 *
US-PATENT-CLASS-323-354	c 33	N90-19492 *	US-PATENT-CLASS-324-22	c 44	N79-12541 *	US-PATENT-CLASS-324-65P	c 14	N73-20478 *
US-PATENT-CLASS-323-38	c 09	N72-21243 *	US-PATENT-CLASS-324-234	c 27	N90-23544 *	US-PATENT-CLASS-324-65R	c 15	N72-23497 *
US-PATENT-CLASS-323-44F	c 33	N79-17133 *	US-PATENT-CLASS-324-235	c 26	N90-21170 *	US-PATENT-CLASS-324-65R	c 33	N85-30187 *
US-PATENT-CLASS-323-48	c 09	N71-27053 *	US-PATENT-CLASS-324-235	c 39	N92-28757 *	US-PATENT-CLASS-324-65	c 14	N71-27186 *
US-PATENT-CLASS-323-48	c 09	N72-25262 *	US-PATENT-CLASS-324-235	c 39	N92-29155 *	US-PATENT-CLASS-324-66	c 05	N72-16015 *
US-PATENT-CLASS-323-4	c 33	N78-17294 *	US-PATENT-CLASS-324-236	c 27	N90-23544 *	US-PATENT-CLASS-324-70	c 14	N70-41332 *
US-PATENT-CLASS-323-56	c 10	N71-22961 *	US-PATENT-CLASS-324-238	c 35	N86-32698 *	US-PATENT-CLASS-324-70	c 14	N71-22890 *
US-PATENT-CLASS-323-56	c 09	N71-24893 *	US-PATENT-CLASS-324-239	c 26	N90-21170 *	US-PATENT-CLASS-324-70	c 10	N71-24863 *
US-PATENT-CLASS-323-56	c 09	N72-22196 *	US-PATENT-CLASS-324-239	c 39	N92-29101 *	US-PATENT-CLASS-324-71.5	c 72	N84-28575 *
US-PATENT-CLASS-323-60	c 09	N71-27053 *	US-PATENT-CLASS-324-239	c 39	N92-29155 *	US-PATENT-CLASS-324-71.5	c 76	N85-30923 *
US-PATENT-CLASS-323-62	c 09	N72-25262 *	US-PATENT-CLASS-324-240	c 35	N86-32698 *	US-PATENT-CLASS-324-71CP	c 35	N76-22509 *
US-PATENT-CLASS-323-89C	c 09	N72-22196 *	US-PATENT-CLASS-324-244	c 70	N92-29130 *	US-PATENT-CLASS-324-71CP	c 35	N82-11431 *
US-PATENT-CLASS-323-8	c 10	N71-10578 *	US-PATENT-CLASS-324-249	c 35	N78-32397 *	US-PATENT-CLASS-324-71R	c 09	N72-21246 *
US-PATENT-CLASS-323-901	c 33	N84-33663 *	US-PATENT-CLASS-324-250	c 35	N84-12444 *	US-PATENT-CLASS-324-71R	c 15	N72-21464 *
US-PATENT-CLASS-323-903	c 33	N90-20320 *	US-PATENT-CLASS-324-261	c 70	N92-29130 *	US-PATENT-CLASS-324-71	c 09	N71-24843 *
US-PATENT-CLASS-323-93	c 33	N77-31404 *	US-PATENT-CLASS-324-262	c 35	N84-22928 *	US-PATENT-CLASS-324-72.5	c 44	N74-27519 *
US-PATENT-CLASS-324-5R	c 16	N73-13489 *	US-PATENT-CLASS-324-262	c 35	N86-32698 *	US-PATENT-CLASS-324-72.5	c 72	N84-28575 *
US-PATENT-CLASS-324-5	c 14	N71-20428 *	US-PATENT-CLASS-324-262	c 38	N92-29154 *	US-PATENT-CLASS-324-72	c 10	N71-19421 *
US-PATENT-CLASS-324-DIG.1	c 33	N75-19520 *	US-PATENT-CLASS-324-29.5	c 03	N72-25020 *	US-PATENT-CLASS-324-72	c 14	N71-23699 *
US-PATENT-CLASS-324-DIG.1	c 14	N73-25041 *	US-PATENT-CLASS-324-29.5	c 14	N73-30388 *	US-PATENT-CLASS-324-72	c 07	N73-20175 *
US-PATENT-CLASS-324-0.5	c 14	N71-26137 *	US-PATENT-CLASS-324-29.5	c 44	N74-27519 *	US-PATENT-CLASS-324-72	c 14	N73-32318 *
US-PATENT-CLASS-324-0.5	c 14	N71-26266 *	US-PATENT-CLASS-324-30B	c 33	N76-19339 *	US-PATENT-CLASS-324-72	c 33	N74-27862 *
US-PATENT-CLASS-324-0.5	c 36	N79-14362 *	US-PATENT-CLASS-324-30R	c 14	N73-20478 *	US-PATENT-CLASS-324-72	c 33	N75-26246 *
US-PATENT-CLASS-324-102	c 09	N72-11225 *	US-PATENT-CLASS-324-329	c 35	N90-22023 *	US-PATENT-CLASS-324-72	c 33	N77-10429 *
US-PATENT-CLASS-324-102	c 33	N74-17930 *	US-PATENT-CLASS-324-32	c 14	N71-16014 *	US-PATENT-CLASS-324-72	c 33	N79-10337 *
US-PATENT-CLASS-324-102	c 33	N75-19521 *	US-PATENT-CLASS-324-32	c 33	N75-18477 *	US-PATENT-CLASS-324-72	c 33	N79-14305 *
US-PATENT-CLASS-324-102	c 33	N79-11315 *	US-PATENT-CLASS-324-32	c 33	N75-19522 *	US-PATENT-CLASS-324-72	c 47	N82-24779 *
US-PATENT-CLASS-324-102	c 33	N79-14305 *	US-PATENT-CLASS-324-32	c 35	N78-28411 *	US-PATENT-CLASS-324-73AT	c 08	N72-22166 *
US-PATENT-CLASS-324-103	c 10	N71-27338 *	US-PATENT-CLASS-324-33	c 25	N69-39884 *	US-PATENT-CLASS-324-73AT	c 33	N81-26359 *
US-PATENT-CLASS-324-106	c 14	N70-38602 *	US-PATENT-CLASS-324-33	c 14	N70-35666 *	US-PATENT-CLASS-324-73R	c 33	N83-18996 *
US-PATENT-CLASS-324-106	c 08	N71-29138 *	US-PATENT-CLASS-324-33	c 24	N71-20518 *	US-PATENT-CLASS-324-73	c 14	N71-28991 *
US-PATENT-CLASS-324-107	c 10	N71-27338 *	US-PATENT-CLASS-324-33	c 14	N71-21090 *	US-PATENT-CLASS-324-74	c 35	N78-28411 *
US-PATENT-CLASS-324-112	c 33	N79-14305 *	US-PATENT-CLASS-324-33	c 14	N71-27090 *	US-PATENT-CLASS-324-77-E	c 33	N89-14385 *
US-PATENT-CLASS-324-113	c 09	N70-41655 *	US-PATENT-CLASS-324-34FL	c 35	N74-21018 *	US-PATENT-CLASS-324-77-R	c 33	N89-14385 *
US-PATENT-CLASS-324-113	c 33	N75-19521 *	US-PATENT-CLASS-324-34R	c 26	N76-18257 *	US-PATENT-CLASS-324-77B	c 60	N75-13539 *
US-PATENT-CLASS-324-113	c 33	N79-11315 *	US-PATENT-CLASS-324-34	c 25	N71-16073 *	US-PATENT-CLASS-324-77B	c 32	N79-10262 *
US-PATENT-CLASS-324-113	c 33	N79-14305 *	US-PATENT-CLASS-324-404	c 44	N80-18551 *	US-PATENT-CLASS-324-77CS	c 32	N92-29124 *
US-PATENT-CLASS-324-115	c 14	N71-26244 *	US-PATENT-CLASS-324-40	c 38	N74-15395 *	US-PATENT-CLASS-324-77C	c 32	N79-10262 *
US-PATENT-CLASS-324-115	c 10	N72-20222 *	US-PATENT-CLASS-324-41	c 10	N72-28240 *	US-PATENT-CLASS-324-77C	c 32	N92-29124 *
US-PATENT-CLASS-324-115	c 17	N91-14371 *	US-PATENT-CLASS-324-427	c 35	N85-21596 *	US-PATENT-CLASS-324-77G	c 08	N72-20177 *
US-PATENT-CLASS-324-117	c 14	N71-23037 *	US-PATENT-CLASS-324-43R	c 35	N76-16390 *	US-PATENT-CLASS-324-77H	c 35	N75-21582 *
US-PATENT-CLASS-324-117	c 33	N89-29681 *	US-PATENT-CLASS-324-43	c 14	N69-27423 *	US-PATENT-CLASS-324-77K	c 35	N79-10391 *
US-PATENT-CLASS-324-118	c 33	N74-17930 *	US-PATENT-CLASS-324-43	c 09	N70-40123 *	US-PATENT-CLASS-324-77R	c 10	N73-25240 *
US-PATENT-CLASS-324-119	c 09	N72-11225 *	US-PATENT-CLASS-324-43	c 14	N71-15962 *	US-PATENT-CLASS-324-77R	c 47	N82-24779 *
US-PATENT-CLASS-324-120	c 14	N71-19431 *	US-PATENT-CLASS-324-43	c 14	N71-26135 *	US-PATENT-CLASS-324-77	c 09	N71-10659 *
US-PATENT-CLASS-324-120	c 09	N71-23021 *	US-PATENT-CLASS-324-43	c 14	N71-27325 *	US-PATENT-CLASS-324-77	c 07	N71-24622 *
US-PATENT-CLASS-324-123C	c 33	N79-22373 *	US-PATENT-CLASS-324-457	c 72	N84-28575 *	US-PATENT-CLASS-324-78-D	c 33	N89-14385 *
US-PATENT-CLASS-324-123R	c 09	N72-11225 *	US-PATENT-CLASS-324-466	c 33	N83-31954 *	US-PATENT-CLASS-324-78-F	c 33	N89-14385 *
US-PATENT-CLASS-324-127	c 33	N79-18193 *	US-PATENT-CLASS-324-51	c 33	N80-26599 *	US-PATENT-CLASS-324-78D	c 09	N72-25257 *
US-PATENT-CLASS-324-127	c 33	N89-29681 *	US-PATENT-CLASS-324-51	c 33	N81-26359 *	US-PATENT-CLASS-324-78D	c 52	N74-12778 *
US-PATENT-CLASS-324-130	c 35	N78-28411 *	US-PATENT-CLASS-324-51	c 33	N82-24420 *	US-PATENT-CLASS-324-78D	c 32	N90-17005 *
US-PATENT-CLASS-324-132	c 09	N71-13530 *	US-PATENT-CLASS-324-52	c 14	N72-17325 *	US-PATENT-CLASS-324-78D	c 32	N92-29124 *
US-PATENT-CLASS-324-132	c 10	N72-20222 *	US-PATENT-CLASS-324-52	c 14	N73-28486 *	US-PATENT-CLASS-324-78E	c 14	N73-24473 *
US-PATENT-CLASS-324-133	c 10	N71-27338 *	US-PATENT-CLASS-324-52	c 33	N79-18193 *	US-PATENT-CLASS-324-78F	c 32	N92-29124 *
US-PATENT-CLASS-324-133	c 33	N79-10337 *	US-PATENT-CLASS-324-52	c 33	N82-24420 *	US-PATENT-CLASS-324-78J	c 10	N73-25240 *
US-PATENT-CLASS-324-133	c 33	N79-11315 *	US-PATENT-CLASS-324-54	c 33	N75-18477 *	US-PATENT-CLASS-324-78J	c 33	N75-19515 *
US-PATENT-CLASS-324-133	c 33	N79-14305 *	US-PATENT-CLASS-324-57DE	c 33	N78-25319 *	US-PATENT-CLASS-324-78Z	c 32	N90-17005 *
US-PATENT-CLASS-324-133	c 33	N79-18193 *	US-PATENT-CLASS-324-57H	c 35	N77-32455 *	US-PATENT-CLASS-324-79D	c 14	N73-30388 *

US-PATENT-CLASS-324-79D	c 33	N76-16331 *	US-PATENT-CLASS-325-422	c 07	N73-30113 *	US-PATENT-CLASS-328-154	c 08	N72-22162 *
US-PATENT-CLASS-324-79R	c 14	N72-27408 *	US-PATENT-CLASS-325-423	c 32	N74-20809 *	US-PATENT-CLASS-328-154	c 10	N73-13235 *
US-PATENT-CLASS-324-79R	c 33	N84-16454 *	US-PATENT-CLASS-325-42	c 07	N71-11266 *	US-PATENT-CLASS-328-154	c 33	N74-22814 *
US-PATENT-CLASS-324-83A	c 10	N72-20222 *	US-PATENT-CLASS-325-42	c 32	N76-21366 *	US-PATENT-CLASS-328-155	c 10	N72-16172 *
US-PATENT-CLASS-324-83A	c 33	N84-16454 *	US-PATENT-CLASS-325-42	c 32	N77-30308 *	US-PATENT-CLASS-328-155	c 09	N72-33204 *
US-PATENT-CLASS-324-83D	c 33	N79-10338 *	US-PATENT-CLASS-325-445	c 07	N72-20141 *	US-PATENT-CLASS-328-155	c 33	N74-17927 *
US-PATENT-CLASS-324-83Q	c 35	N74-21017 *	US-PATENT-CLASS-325-446	c 09	N69-24324 *	US-PATENT-CLASS-328-155	c 17	N76-22245 *
US-PATENT-CLASS-324-83Q	c 33	N75-26243 *	US-PATENT-CLASS-325-45	c 07	N73-25160 *	US-PATENT-CLASS-328-155	c 32	N88-29076 *
US-PATENT-CLASS-324-83R	c 33	N84-16454 *	US-PATENT-CLASS-325-473	c 07	N71-33696 *	US-PATENT-CLASS-328-160	c 32	N74-19788 *
US-PATENT-CLASS-324-85	c 10	N72-20224 *	US-PATENT-CLASS-325-473	c 10	N73-12244 *	US-PATENT-CLASS-328-161	c 33	N77-17354 *
US-PATENT-CLASS-324-85	c 33	N79-10338 *	US-PATENT-CLASS-325-473	c 32	N77-30308 *	US-PATENT-CLASS-328-163	c 33	N79-10338 *
US-PATENT-CLASS-324-92	c 26	N72-25680 *	US-PATENT-CLASS-325-476	c 32	N77-10392 *	US-PATENT-CLASS-328-164	c 07	N71-33696 *
US-PATENT-CLASS-324-95	c 10	N71-12554 *	US-PATENT-CLASS-325-478	c 07	N71-33696 *	US-PATENT-CLASS-328-164	c 33	N87-21235 *
US-PATENT-CLASS-324-95	c 14	N73-30388 *	US-PATENT-CLASS-325-480	c 07	N71-33696 *	US-PATENT-CLASS-328-165	c 09	N71-24806 *
US-PATENT-CLASS-324-96	c 26	N72-25680 *	US-PATENT-CLASS-325-480	c 10	N73-12244 *	US-PATENT-CLASS-328-165	c 07	N71-33696 *
US-PATENT-CLASS-324-96	c 33	N79-10337 *	US-PATENT-CLASS-325-482	c 07	N71-33696 *	US-PATENT-CLASS-328-166	c 10	N72-20223 *
US-PATENT-CLASS-324-99D	c 33	N79-22373 *	US-PATENT-CLASS-325-492	c 09	N72-17153 *	US-PATENT-CLASS-328-166	c 33	N82-29539 *
US-PATENT-CLASS-325-10	c 07	N72-12081 *	US-PATENT-CLASS-325-492	c 09	N72-22022 *	US-PATENT-CLASS-328-167	c 10	N71-22986 *
US-PATENT-CLASS-325-113	c 07	N71-24840 *	US-PATENT-CLASS-325-4	c 07	N71-16088 *	US-PATENT-CLASS-328-167	c 08	N71-29034 *
US-PATENT-CLASS-325-113	c 07	N73-25160 *	US-PATENT-CLASS-325-4	c 07	N71-19773 *	US-PATENT-CLASS-328-167	c 10	N72-17171 *
US-PATENT-CLASS-325-113	c 52	N74-26625 *	US-PATENT-CLASS-325-4	c 07	N71-24621 *	US-PATENT-CLASS-328-167	c 09	N72-21245 *
US-PATENT-CLASS-325-114	c 07	N72-25171 *	US-PATENT-CLASS-325-4	c 07	N72-11149 *	US-PATENT-CLASS-328-167	c 09	N73-20231 *
US-PATENT-CLASS-325-114	c 03	N76-32140 *	US-PATENT-CLASS-325-4	c 07	N72-12080 *	US-PATENT-CLASS-328-167	c 08	N73-26175 *
US-PATENT-CLASS-325-115	c 03	N76-32140 *	US-PATENT-CLASS-325-4	c 07	N72-20140 *	US-PATENT-CLASS-328-167	c 33	N82-24417 *
US-PATENT-CLASS-325-118	c 17	N78-17140 *	US-PATENT-CLASS-325-4	c 07	N72-25171 *	US-PATENT-CLASS-328-167	c 33	N85-29145 *
US-PATENT-CLASS-325-12	c 07	N73-20174 *	US-PATENT-CLASS-325-4	c 07	N73-20174 *	US-PATENT-CLASS-328-168	c 32	N74-19788 *
US-PATENT-CLASS-325-139	c 07	N73-25160 *	US-PATENT-CLASS-325-4	c 15	N75-13007 *	US-PATENT-CLASS-328-16	c 10	N72-20223 *
US-PATENT-CLASS-325-13	c 07	N72-12081 *	US-PATENT-CLASS-325-4	c 32	N75-26195 *	US-PATENT-CLASS-328-171	c 10	N71-24844 *
US-PATENT-CLASS-325-141	c 07	N72-25173 *	US-PATENT-CLASS-325-4	c 32	N77-20289 *	US-PATENT-CLASS-328-172	c 32	N74-19788 *
US-PATENT-CLASS-325-141	c 52	N74-26625 *	US-PATENT-CLASS-325-4	c 32	N79-11265 *	US-PATENT-CLASS-328-172	c 33	N78-17294 *
US-PATENT-CLASS-325-143	c 05	N71-12342 *	US-PATENT-CLASS-325-4	c 32	N80-20448 *	US-PATENT-CLASS-328-186	c 09	N72-17157 *
US-PATENT-CLASS-325-145	c 32	N77-14292 *	US-PATENT-CLASS-325-51	c 07	N72-25173 *	US-PATENT-CLASS-328-187	c 10	N73-20254 *
US-PATENT-CLASS-325-148	c 32	N74-19790 *	US-PATENT-CLASS-325-55	c 07	N72-25173 *	US-PATENT-CLASS-328-189	c 14	N72-27408 *
US-PATENT-CLASS-325-14	c 17	N76-21250 *	US-PATENT-CLASS-325-58	c 07	N72-11149 *	US-PATENT-CLASS-328-190	c 33	N76-14371 *
US-PATENT-CLASS-325-14	c 32	N80-20448 *	US-PATENT-CLASS-325-58	c 07	N72-20140 *	US-PATENT-CLASS-328-192	c 60	N81-15706 *
US-PATENT-CLASS-325-151.11	c 08	N71-27057 *	US-PATENT-CLASS-325-58	c 07	N72-25173 *	US-PATENT-CLASS-328-1	c 23	N71-16099 *
US-PATENT-CLASS-325-159	c 33	N78-32340 *	US-PATENT-CLASS-325-58	c 32	N78-15323 *	US-PATENT-CLASS-328-1	c 10	N71-19472 *
US-PATENT-CLASS-325-163	c 07	N71-23405 *	US-PATENT-CLASS-325-58	c 32	N79-20296 *	US-PATENT-CLASS-328-1	c 09	N72-22200 *
US-PATENT-CLASS-325-16	c 07	N71-27056 *	US-PATENT-CLASS-325-5	c 07	N73-20174 *	US-PATENT-CLASS-328-207	c 09	N71-28468 *
US-PATENT-CLASS-325-17	c 07	N73-20174 *	US-PATENT-CLASS-325-60	c 08	N71-19763 *	US-PATENT-CLASS-328-207	c 10	N71-28860 *
US-PATENT-CLASS-325-185	c 07	N71-28430 *	US-PATENT-CLASS-325-60	c 07	N73-16121 *	US-PATENT-CLASS-328-207	c 09	N71-29139 *
US-PATENT-CLASS-325-186	c 03	N76-32140 *	US-PATENT-CLASS-325-60	c 32	N75-24981 *	US-PATENT-CLASS-328-207	c 10	N72-20221 *
US-PATENT-CLASS-325-187	c 33	N78-32340 *	US-PATENT-CLASS-325-61	c 07	N73-25160 *	US-PATENT-CLASS-328-20	c 10	N72-20223 *
US-PATENT-CLASS-325-23	c 07	N71-27056 *	US-PATENT-CLASS-325-62	c 08	N72-25208 *	US-PATENT-CLASS-328-230	c 35	N84-12444 *
US-PATENT-CLASS-325-29	c 09	N72-22022 *	US-PATENT-CLASS-325-62	c 44	N74-19870 *	US-PATENT-CLASS-328-233	c 10	N71-22962 *
US-PATENT-CLASS-325-302	c 07	N72-25173 *	US-PATENT-CLASS-325-63	c 10	N71-19467 *	US-PATENT-CLASS-328-233	c 75	N75-13625 *
US-PATENT-CLASS-325-304	c 32	N76-14321 *	US-PATENT-CLASS-325-63	c 07	N73-20174 *	US-PATENT-CLASS-328-233	c 37	N78-17386 *
US-PATENT-CLASS-325-305	c 07	N71-10775 *	US-PATENT-CLASS-325-63	c 32	N78-15323 *	US-PATENT-CLASS-328-24	c 09	N72-33204 *
US-PATENT-CLASS-325-305	c 10	N71-20841 *	US-PATENT-CLASS-325-63	c 32	N79-20296 *	US-PATENT-CLASS-328-28	c 33	N87-21235 *
US-PATENT-CLASS-325-305	c 07	N71-23098 *	US-PATENT-CLASS-325-64	c 07	N72-25173 *	US-PATENT-CLASS-328-37	c 08	N71-12503 *
US-PATENT-CLASS-325-305	c 32	N80-18253 *	US-PATENT-CLASS-325-65	c 07	N70-41331 *	US-PATENT-CLASS-328-37	c 10	N73-20254 *
US-PATENT-CLASS-325-306	c 32	N76-14321 *	US-PATENT-CLASS-325-65	c 07	N70-41372 *	US-PATENT-CLASS-328-37	c 33	N76-14373 *
US-PATENT-CLASS-325-307	c 32	N80-18253 *	US-PATENT-CLASS-325-65	c 07	N71-11284 *	US-PATENT-CLASS-328-37	c 33	N81-17349 *
US-PATENT-CLASS-325-30	c 32	N74-26654 *	US-PATENT-CLASS-325-65	c 32	N77-30308 *	US-PATENT-CLASS-328-38	c 10	N72-20223 *
US-PATENT-CLASS-325-30	c 32	N75-24981 *	US-PATENT-CLASS-325-65	c 17	N78-17140 *	US-PATENT-CLASS-328-38	c 33	N77-24375 *
US-PATENT-CLASS-325-30	c 32	N77-30308 *	US-PATENT-CLASS-325-67	c 07	N71-26292 *	US-PATENT-CLASS-328-39	c 33	N77-24375 *
US-PATENT-CLASS-325-31	c 07	N71-20791 *	US-PATENT-CLASS-325-67	c 10	N73-25241 *	US-PATENT-CLASS-328-4-8	c 33	N77-24375 *
US-PATENT-CLASS-325-320	c 33	N74-12887 *	US-PATENT-CLASS-325-67	c 35	N75-21582 *	US-PATENT-CLASS-328-41	c 33	N75-31330 *
US-PATENT-CLASS-325-320	c 32	N74-20809 *	US-PATENT-CLASS-325-67	c 32	N79-11265 *	US-PATENT-CLASS-328-42	c 08	N71-19432 *
US-PATENT-CLASS-325-320	c 32	N74-20811 *	US-PATENT-CLASS-325-7	c 07	N73-20174 *	US-PATENT-CLASS-328-44	c 08	N71-29034 *
US-PATENT-CLASS-325-320	c 33	N74-27705 *	US-PATENT-CLASS-325-8	c 07	N73-20174 *	US-PATENT-CLASS-328-48	c 14	N73-30386 *
US-PATENT-CLASS-325-321	c 07	N72-20140 *	US-PATENT-CLASS-325-8	c 32	N80-20448 *	US-PATENT-CLASS-328-48	c 33	N74-10223 *
US-PATENT-CLASS-325-321	c 32	N74-20810 *	US-PATENT-CLASS-325-9	c 07	N73-20174 *	US-PATENT-CLASS-328-48	c 60	N81-15706 *
US-PATENT-CLASS-325-321	c 32	N76-16249 *	US-PATENT-CLASS-325-9	c 32	N80-20448 *	US-PATENT-CLASS-328-49	c 10	N71-27137 *
US-PATENT-CLASS-325-323	c 32	N77-10392 *	US-PATENT-CLASS-328-104	c 08	N72-22162 *	US-PATENT-CLASS-328-55	c 33	N81-17349 *
US-PATENT-CLASS-325-325	c 07	N71-24613 *	US-PATENT-CLASS-328-104	c 10	N73-13235 *	US-PATENT-CLASS-328-58	c 08	N71-29138 *
US-PATENT-CLASS-325-325	c 07	N72-25173 *	US-PATENT-CLASS-328-106	c 09	N72-22201 *	US-PATENT-CLASS-328-58	c 33	N74-32711 *
US-PATENT-CLASS-325-325	c 07	N73-13149 *	US-PATENT-CLASS-328-110	c 09	N71-12519 *	US-PATENT-CLASS-328-58	c 33	N75-18479 *
US-PATENT-CLASS-325-346	c 10	N73-16205 *	US-PATENT-CLASS-328-111	c 60	N77-12721 *	US-PATENT-CLASS-328-59	c 33	N75-19515 *
US-PATENT-CLASS-325-346	c 32	N74-30523 *	US-PATENT-CLASS-328-115	c 33	N75-18479 *	US-PATENT-CLASS-328-61	c 09	N71-23525 *
US-PATENT-CLASS-325-346	c 32	N77-24331 *	US-PATENT-CLASS-328-116	c 09	N69-39885 *	US-PATENT-CLASS-328-61	c 10	N73-20254 *
US-PATENT-CLASS-325-347	c 07	N71-33696 *	US-PATENT-CLASS-328-120	c 09	N71-27016 *	US-PATENT-CLASS-328-61	c 35	N75-30504 *
US-PATENT-CLASS-325-348	c 07	N71-33696 *	US-PATENT-CLASS-328-123	c 60	N74-12888 *	US-PATENT-CLASS-328-62	c 35	N75-30504 *
US-PATENT-CLASS-325-349	c 32	N77-10392 *	US-PATENT-CLASS-328-129	c 14	N73-30386 *	US-PATENT-CLASS-328-63	c 33	N76-14371 *
US-PATENT-CLASS-325-363	c 07	N71-11267 *	US-PATENT-CLASS-328-133	c 09	N71-24596 *	US-PATENT-CLASS-328-63	c 33	N77-24375 *
US-PATENT-CLASS-325-363	c 14	N71-26774 *	US-PATENT-CLASS-328-133	c 10	N72-20224 *	US-PATENT-CLASS-328-67	c 10	N71-28960 *
US-PATENT-CLASS-325-363	c 14	N72-28437 *	US-PATENT-CLASS-328-133	c 33	N75-26243 *	US-PATENT-CLASS-328-67	c 33	N82-24418 *
US-PATENT-CLASS-325-363	c 10	N73-25241 *	US-PATENT-CLASS-328-133	c 33	N77-13315 *	US-PATENT-CLASS-328-67	c 33	N88-24862 *
US-PATENT-CLASS-325-363	c 35	N80-18359 *	US-PATENT-CLASS-328-133	c 33	N79-11313 *	US-PATENT-CLASS-328-71	c 60	N81-15706 *
US-PATENT-CLASS-325-369	c 07	N71-27056 *	US-PATENT-CLASS-328-133	c 33	N84-16454 *	US-PATENT-CLASS-328-92	c 10	N71-28860 *
US-PATENT-CLASS-325-372	c 32	N76-14321 *	US-PATENT-CLASS-328-134	c 08	N71-18692 *	US-PATENT-CLASS-329-104	c 07	N71-11282 *
US-PATENT-CLASS-325-373	c 07	N72-33146 *	US-PATENT-CLASS-328-134	c 14	N73-30386 *	US-PATENT-CLASS-329-104	c 33	N74-12887 *
US-PATENT-CLASS-325-38B	c 35	N74-17885 *	US-PATENT-CLASS-328-134	c 33	N76-16331 *	US-PATENT-CLASS-329-104	c 32	N77-24331 *
US-PATENT-CLASS-325-38	c 07	N72-20140 *	US-PATENT-CLASS-328-134	c 33	N81-17349 *	US-PATENT-CLASS-329-107	c 35	N81-19427 *
US-PATENT-CLASS-325-38	c 07	N72-25173 *	US-PATENT-CLASS-328-136	c 09	N72-25257 *	US-PATENT-CLASS-329-107	c 32	N87-21207 *
US-PATENT-CLASS-325-39	c 07	N72-11149 *	US-PATENT-CLASS-328-140	c 09	N72-25257 *	US-PATENT-CLASS-329-119	c 33	N77-21314 *
US-PATENT-CLASS-325-40	c 07	N73-26118 *	US-PATENT-CLASS-328-142	c 09	N72-21245 *	US-PATENT-CLASS-329-120	c 07	N73-30113 *
US-PATENT-CLASS-325-419	c 10	N73-16205 *	US-PATENT-CLASS-328-145	c 32	N76-14321 *	US-PATENT-CLASS-329-122	c 10	N71-19469 *
US-PATENT-CLASS-325-419	c 07	N73-28012 *	US-PATENT-CLASS-328-145	c 09	N72-23173 *	US-PATENT-CLASS-329-122	c 07	N73-28012 *
US-PATENT-CLASS-325-419	c 32	N74-20810 *	US-PATENT-CLASS-328-145	c 33	N78-32339 *	US-PATENT-CLASS-329-122	c 33	N74-12887 *
US-PATENT-CLASS-325-419	c 32	N74-20811 *	US-PATENT-CLASS-328-147	c 33	N87-21235 *	US-PATENT-CLASS-329-122	c 32	N74-20811 *
US-PATENT-CLASS-325-419	c 32	N80-18253 *	US-PATENT-CLASS-328-150	c 33	N78-18308 *	US-PATENT-CLASS-329-122	c 33	N77-14334 *
US-PATENT-CLASS-325-41	c 10	N71-26577 *	US-PATENT-CLASS-328-151	c 09	N72-22200 *	US-PATENT-CLASS-329-122	c 32	N77-24331 *
US-PATENT-CLASS-325-41	c 32	N77-12240 *	US-PATENT-CLASS-328-151	c 33	N75-18479 *	US-PATENT-CLASS-329-122	c 32	N79-14267 *
US-PATENT-CLASS-325-41	c 32	N79-10263 *	US-PATENT-CLASS-328-151	c 33	N81-27396 *	US-PATENT-CLASS-329-122	c 33	N81-33405 *
US-PATENT-CLASS-325-420	c 07	N73-30113 *	US-PATENT-CLASS-328-151	c 33	N91-14550 *	US-PATENT-CLASS-329-124	c 33	N77-14334 *

US-PATENT-CLASS-329-124	c 33	N78-32338 *	US-PATENT-CLASS-330-12	c 10	N72-33230 *	US-PATENT-CLASS-330-86	c 33	N75-19518 *
US-PATENT-CLASS-329-124	c 32	N84-27952 *	US-PATENT-CLASS-330-13	c 10	N71-26415 *	US-PATENT-CLASS-330-86	c 33	N79-22373 *
US-PATENT-CLASS-329-126	c 33	N74-12887 *	US-PATENT-CLASS-330-13	c 33	N75-30428 *	US-PATENT-CLASS-330-8	c 33	N81-24338 *
US-PATENT-CLASS-329-140	c 07	N71-24583 *	US-PATENT-CLASS-330-14	c 09	N70-35440 *	US-PATENT-CLASS-330-8	c 33	N89-29681 *
US-PATENT-CLASS-329-145	c 07	N71-33696 *	US-PATENT-CLASS-330-14	c 33	N77-14335 *	US-PATENT-CLASS-330-94	c 10	N72-17172 *
US-PATENT-CLASS-329-161	c 07	N72-20141 *	US-PATENT-CLASS-330-16	c 10	N71-33129 *	US-PATENT-CLASS-330-9	c 33	N74-14939 *
US-PATENT-CLASS-329-162	c 07	N72-20141 *	US-PATENT-CLASS-330-176	c 10	N72-17171 *	US-PATENT-CLASS-331-DIG.1	c 36	N75-30524 *
US-PATENT-CLASS-329-166	c 33	N75-19520 *	US-PATENT-CLASS-330-18	c 09	N72-17155 *	US-PATENT-CLASS-331-DIG.2	c 33	N81-33405 *
US-PATENT-CLASS-329-166	c 33	N75-25041 *	US-PATENT-CLASS-330-18	c 33	N75-30428 *	US-PATENT-CLASS-331-1-A	c 33	N86-20668 *
US-PATENT-CLASS-329-204	c 33	N75-19520 *	US-PATENT-CLASS-330-200	c 07	N71-28430 *	US-PATENT-CLASS-331-1A	c 33	N74-10194 *
US-PATENT-CLASS-329-204	c 33	N75-25041 *	US-PATENT-CLASS-330-207A	c 33	N75-30429 *	US-PATENT-CLASS-331-1A	c 33	N75-25040 *
US-PATENT-CLASS-329-205	c 33	N77-21314 *	US-PATENT-CLASS-330-20	c 09	N73-20232 *	US-PATENT-CLASS-331-1A	c 33	N79-11313 *
US-PATENT-CLASS-329-304	c 32	N91-25318 *	US-PATENT-CLASS-330-22	c 09	N71-10798 *	US-PATENT-CLASS-331-107A	c 71	N77-26919 *
US-PATENT-CLASS-329-304	c 32	N91-27439 *	US-PATENT-CLASS-330-22	c 09	N73-20232 *	US-PATENT-CLASS-331-107G	c 26	N72-25679 *
US-PATENT-CLASS-329-306	c 04	N91-14321 *	US-PATENT-CLASS-330-24	c 10	N71-33129 *	US-PATENT-CLASS-331-107G	c 09	N73-15235 *
US-PATENT-CLASS-329-310	c 32	N92-21712 *	US-PATENT-CLASS-330-24	c 33	N75-30429 *	US-PATENT-CLASS-331-107	c 09	N71-18721 *
US-PATENT-CLASS-329-349	c 33	N91-26438 *	US-PATENT-CLASS-330-258	c 33	N86-20670 *	US-PATENT-CLASS-331-107	c 26	N72-21701 *
US-PATENT-CLASS-329-361	c 33	N91-26438 *	US-PATENT-CLASS-330-261	c 33	N86-20670 *	US-PATENT-CLASS-331-108A	c 33	N74-20862 *
US-PATENT-CLASS-329-363	c 33	N91-14550 *	US-PATENT-CLASS-330-26	c 10	N72-17172 *	US-PATENT-CLASS-331-108D	c 33	N86-32624 *
US-PATENT-CLASS-329-50	c 33	N74-17930 *	US-PATENT-CLASS-330-27R	c 10	N72-31273 *	US-PATENT-CLASS-331-109	c 10	N71-27271 *
US-PATENT-CLASS-329-50	c 35	N81-19427 *	US-PATENT-CLASS-330-277	c 33	N84-22887 *	US-PATENT-CLASS-331-109	c 33	N74-26732 *
US-PATENT-CLASS-33.8UB	c 27	N81-15104 *	US-PATENT-CLASS-330-282	c 33	N83-36356 *	US-PATENT-CLASS-331-10	c 07	N72-11150 *
US-PATENT-CLASS-33-DIG.13	c 35	N75-12273 *	US-PATENT-CLASS-330-289	c 33	N83-34191 *	US-PATENT-CLASS-331-111	c 10	N71-23669 *
US-PATENT-CLASS-33-DIG.3	c 04	N84-14132 *	US-PATENT-CLASS-330-289	c 33	N84-16454 *	US-PATENT-CLASS-331-111	c 09	N72-21247 *
US-PATENT-CLASS-33-1G	c 37	N76-21554 *	US-PATENT-CLASS-330-28	c 33	N74-21851 *	US-PATENT-CLASS-331-113A	c 09	N72-25253 *
US-PATENT-CLASS-33-1M	c 35	N74-32877 *	US-PATENT-CLASS-330-28	c 33	N77-14335 *	US-PATENT-CLASS-331-113A	c 09	N72-25254 *
US-PATENT-CLASS-33-1N	c 43	N79-26439 *	US-PATENT-CLASS-330-290	c 33	N82-24417 *	US-PATENT-CLASS-331-113A	c 33	N74-11049 *
US-PATENT-CLASS-33-1Q	c 43	N79-26439 *	US-PATENT-CLASS-330-294	c 33	N82-24417 *	US-PATENT-CLASS-331-113R	c 33	N82-18494 *
US-PATENT-CLASS-33-1SA	c 14	N72-28436 *	US-PATENT-CLASS-330-294	c 33	N84-22887 *	US-PATENT-CLASS-331-113	c 09	N70-38995 *
US-PATENT-CLASS-33-1SA	c 19	N74-21015 *	US-PATENT-CLASS-330-294	c 33	N87-22895 *	US-PATENT-CLASS-331-113	c 10	N71-19418 *
US-PATENT-CLASS-33-10	c 35	N92-22039 *	US-PATENT-CLASS-330-29	c 09	N69-24330 *	US-PATENT-CLASS-331-113	c 09	N71-19470 *
US-PATENT-CLASS-33-125R	c 52	N80-27072 *	US-PATENT-CLASS-330-29	c 10	N72-28241 *	US-PATENT-CLASS-331-113	c 10	N71-25882 *
US-PATENT-CLASS-33-125	c 14	N72-11364 *	US-PATENT-CLASS-330-2	c 09	N69-39986 *	US-PATENT-CLASS-331-113	c 10	N71-25950 *
US-PATENT-CLASS-33-143C	c 52	N82-22875 *	US-PATENT-CLASS-330-2	c 09	N72-25250 *	US-PATENT-CLASS-331-113	c 09	N71-28810 *
US-PATENT-CLASS-33-147D	c 37	N88-14361 *	US-PATENT-CLASS-330-2	c 33	N78-10375 *	US-PATENT-CLASS-331-114	c 33	N77-17351 *
US-PATENT-CLASS-33-147	c 15	N71-19489 *	US-PATENT-CLASS-330-2	c 33	N79-22373 *	US-PATENT-CLASS-331-115	c 10	N72-33230 *
US-PATENT-CLASS-33-148D	c 35	N75-19615 *	US-PATENT-CLASS-330-30D	c 10	N72-20221 *	US-PATENT-CLASS-331-115	c 33	N74-20862 *
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US-PATENT-CLASS-331-94.5	c 07	N73-26119 *	US-PATENT-CLASS-333-80	c 09	N72-21245 *	US-PATENT-CLASS-338-5	c 32	N71-15974 *
US-PATENT-CLASS-331-94.5	c 09	N73-32111 *	US-PATENT-CLASS-333-81B	c 14	N73-13420 *	US-PATENT-CLASS-338-5	c 52	N74-27864 *
US-PATENT-CLASS-331-94.5	c 16	N73-32391 *	US-PATENT-CLASS-333-81R	c 07	N72-25170 *	US-PATENT-CLASS-338-64	c 09	N71-21583 *
US-PATENT-CLASS-331-94.5	c 36	N76-18427 *	US-PATENT-CLASS-333-81R	c 33	N78-32340 *	US-PATENT-CLASS-338-6	c 35	N76-14430 *
US-PATENT-CLASS-331-94.5G	c 36	N75-32441 *	US-PATENT-CLASS-333-81R	c 32	N80-14281 *	US-PATENT-CLASS-338-6	c 52	N76-29895 *
US-PATENT-CLASS-331-94	c 16	N70-41578 *	US-PATENT-CLASS-333-81	c 07	N71-29065 *	US-PATENT-CLASS-338-75	c 37	N75-13265 *
US-PATENT-CLASS-331-94	c 16	N72-28521 *	US-PATENT-CLASS-333-82A	c 09	N73-26195 *	US-PATENT-CLASS-338-82	c 09	N71-20842 *
US-PATENT-CLASS-331-94	c 16	N73-13489 *	US-PATENT-CLASS-333-82B	c 32	N77-18307 *	US-PATENT-CLASS-338-89	c 35	N74-32877 *
US-PATENT-CLASS-331-94	c 35	N76-15436 *	US-PATENT-CLASS-333-83BT	c 33	N75-30430 *	US-PATENT-CLASS-338-97	c 37	N75-13265 *
US-PATENT-CLASS-331-94	c 36	N76-31512 *	US-PATENT-CLASS-333-83R	c 36	N74-11313 *	US-PATENT-CLASS-338-99	c 35	N78-17359 *
US-PATENT-CLASS-331-94	c 36	N79-14362 *	US-PATENT-CLASS-333-83	c 09	N71-24841 *	US-PATENT-CLASS-339-143C	c 33	N78-16332 *
US-PATENT-CLASS-331-94	c 36	N80-18372 *	US-PATENT-CLASS-333-84M	c 09	N73-26195 *	US-PATENT-CLASS-339-143R	c 09	N72-25256 *
US-PATENT-CLASS-331-96	c 33	N85-29143 *	US-PATENT-CLASS-333-8	c 07	N69-24334 *	US-PATENT-CLASS-339-147R	c 09	N72-25256 *
US-PATENT-CLASS-332-10	c 08	N71-29138 *	US-PATENT-CLASS-333-95	c 07	N71-27191 *	US-PATENT-CLASS-339-150	c 09	N69-21470 *
US-PATENT-CLASS-332-11D	c 35	N74-17885 *	US-PATENT-CLASS-333-96	c 09	N71-20445 *	US-PATENT-CLASS-339-17M	c 37	N76-27567 *
US-PATENT-CLASS-332-16	c 33	N77-21314 *	US-PATENT-CLASS-333-96	c 07	N71-27191 *	US-PATENT-CLASS-339-17R	c 15	N71-29133 *
US-PATENT-CLASS-332-18	c 33	N77-17351 *	US-PATENT-CLASS-333-97R	c 36	N74-11313 *	US-PATENT-CLASS-339-176MF	c 09	N72-28225 *
US-PATENT-CLASS-332-19	c 10	N71-23544 *	US-PATENT-CLASS-333-97	c 07	N69-27462 *	US-PATENT-CLASS-339-176M	c 15	N72-17455 *
US-PATENT-CLASS-332-1	c 10	N71-23084 *	US-PATENT-CLASS-333-98P	c 07	N72-25170 *	US-PATENT-CLASS-339-176	c 09	N70-34596 *
US-PATENT-CLASS-332-21	c 08	N72-25208 *	US-PATENT-CLASS-333-98P	c 09	N72-29172 *	US-PATENT-CLASS-339-176	c 09	N70-36494 *
US-PATENT-CLASS-332-22	c 32	N77-14292 *	US-PATENT-CLASS-333-98R	c 07	N72-25170 *	US-PATENT-CLASS-339-177	c 09	N71-20851 *
US-PATENT-CLASS-332-22	c 33	N81-15192 *	US-PATENT-CLASS-333-98R	c 09	N72-29172 *	US-PATENT-CLASS-339-17	c 14	N69-27431 *
US-PATENT-CLASS-332-23-A	c 32	N87-25511 *	US-PATENT-CLASS-333-98R	c 14	N73-13420 *	US-PATENT-CLASS-339-17	c 15	N71-17685 *
US-PATENT-CLASS-332-23R	c 32	N77-14292 *	US-PATENT-CLASS-333-98R	c 33	N75-30430 *	US-PATENT-CLASS-339-17	c 09	N71-26133 *
US-PATENT-CLASS-332-23R	c 33	N81-15192 *	US-PATENT-CLASS-333-98S	c 07	N72-25170 *	US-PATENT-CLASS-339-18C	c 37	N76-27567 *
US-PATENT-CLASS-332-29	c 07	N71-28429 *	US-PATENT-CLASS-333-98	c 09	N71-23548 *	US-PATENT-CLASS-339-198R	c 33	N76-16332 *
US-PATENT-CLASS-332-2	c 35	N75-19614 *	US-PATENT-CLASS-333-98	c 09	N71-24808 *	US-PATENT-CLASS-339-218M	c 09	N72-28225 *
US-PATENT-CLASS-332-30V	c 33	N77-14334 *	US-PATENT-CLASS-333-99S	c 32	N80-32605 *	US-PATENT-CLASS-339-242	c 33	N76-16332 *
US-PATENT-CLASS-332-30V	c 33	N77-17351 *	US-PATENT-CLASS-333-99S	c 74	N92-28571 *	US-PATENT-CLASS-339-252R	c 52	N77-14738 *
US-PATENT-CLASS-332-30	c 10	N71-27271 *	US-PATENT-CLASS-335-100	c 37	N85-30333 *	US-PATENT-CLASS-339-258RR	c 33	N84-14423 *
US-PATENT-CLASS-332-30	c 07	N71-28429 *	US-PATENT-CLASS-335-205	c 09	N72-20199 *	US-PATENT-CLASS-339-262RR	c 33	N84-14423 *
US-PATENT-CLASS-332-30	c 33	N77-21314 *	US-PATENT-CLASS-335-216	c 16	N71-28554 *	US-PATENT-CLASS-339-275R	c 33	N76-16332 *
US-PATENT-CLASS-332-31	c 08	N71-12500 *	US-PATENT-CLASS-335-216	c 23	N71-29049 *	US-PATENT-CLASS-339-275T	c 09	N72-20200 *
US-PATENT-CLASS-332-31	c 26	N72-21701 *	US-PATENT-CLASS-335-216	c 26	N73-32571 *	US-PATENT-CLASS-339-276T	c 09	N72-20200 *
US-PATENT-CLASS-332-47	c 33	N75-19520 *	US-PATENT-CLASS-335-216	c 20	N75-24837 *	US-PATENT-CLASS-339-278M	c 15	N72-17455 *
US-PATENT-CLASS-332-51W	c 07	N72-20141 *	US-PATENT-CLASS-335-216	c 33	N79-21264 *	US-PATENT-CLASS-339-3R	c 07	N83-20944 *

US-PATENT-CLASS-339-45M	c 15	N72-25450 *	US-PATENT-CLASS-340-174AG	c 23	N72-17747 *	US-PATENT-CLASS-340-347DA	c 08	N72-25206 *
US-PATENT-CLASS-339-46	c 15	N72-17455 *	US-PATENT-CLASS-340-174CS	c 08	N72-21199 *	US-PATENT-CLASS-340-347DA	c 08	N73-32081 *
US-PATENT-CLASS-339-5R	c 07	N83-20944 *	US-PATENT-CLASS-340-174CT	c 23	N72-17747 *	US-PATENT-CLASS-340-347DD	c 10	N71-33407 *
US-PATENT-CLASS-339-5	c 15	N71-23049 *	US-PATENT-CLASS-340-174GA	c 23	N72-17747 *	US-PATENT-CLASS-340-347DD	c 08	N72-18184 *
US-PATENT-CLASS-339-64M	c 33	N84-14423 *	US-PATENT-CLASS-340-174LC	c 08	N72-21199 *	US-PATENT-CLASS-340-347DD	c 08	N72-20176 *
US-PATENT-CLASS-339-75MP	c 09	N72-28225 *	US-PATENT-CLASS-340-174MA	c 24	N75-13032 *	US-PATENT-CLASS-340-347DD	c 08	N72-21197 *
US-PATENT-CLASS-339-91B	c 15	N72-25450 *	US-PATENT-CLASS-340-174M	c 08	N72-21199 *	US-PATENT-CLASS-340-347DD	c 08	N73-12176 *
US-PATENT-CLASS-339-91	c 09	N69-21927 *	US-PATENT-CLASS-340-174SC	c 23	N72-17747 *	US-PATENT-CLASS-340-347DD	c 60	N76-23850 *
US-PATENT-CLASS-339-94M	c 09	N72-28225 *	US-PATENT-CLASS-340-174SR	c 08	N72-21199 *	US-PATENT-CLASS-340-347DD	c 32	N77-12239 *
US-PATENT-CLASS-339-95	c 09	N69-39734 *	US-PATENT-CLASS-340-174YC	c 36	N74-13205 *	US-PATENT-CLASS-340-347DD	c 60	N78-17691 *
US-PATENT-CLASS-339-12R	c 52	N77-25772 *	US-PATENT-CLASS-340-174YC	c 35	N78-29421 *	US-PATENT-CLASS-340-347DD	c 60	N79-20751 *
US-PATENT-CLASS-34-155	c 14	N73-28489 *	US-PATENT-CLASS-340-174	c 08	N71-12504 *	US-PATENT-CLASS-340-347DD	c 33	N82-26570 *
US-PATENT-CLASS-34-15	c 28	N78-24365 *	US-PATENT-CLASS-340-174	c 09	N71-12515 *	US-PATENT-CLASS-340-347DD	c 32	N86-27513 *
US-PATENT-CLASS-34-160	c 14	N73-28489 *	US-PATENT-CLASS-340-174	c 08	N71-18595 *	US-PATENT-CLASS-340-347P	c 60	N76-23850 *
US-PATENT-CLASS-34-162	c 14	N73-28489 *	US-PATENT-CLASS-340-174	c 08	N71-18694 *	US-PATENT-CLASS-340-347P	c 35	N77-30436 *
US-PATENT-CLASS-34-162	c 35	N74-15831 *	US-PATENT-CLASS-340-174	c 10	N71-23033 *	US-PATENT-CLASS-340-347R	c 08	N72-22165 *
US-PATENT-CLASS-34-57A	c 35	N83-24828 *	US-PATENT-CLASS-340-174	c 10	N71-26418 *	US-PATENT-CLASS-340-347SH	c 33	N77-31404 *
US-PATENT-CLASS-340-12R	c 35	N74-16135 *	US-PATENT-CLASS-340-174	c 10	N71-26434 *	US-PATENT-CLASS-340-347SY	c 62	N76-31946 *
US-PATENT-CLASS-340-12R	c 46	N79-23555 *	US-PATENT-CLASS-340-174	c 08	N71-28925 *	US-PATENT-CLASS-340-347SY	c 35	N77-30436 *
US-PATENT-CLASS-340-146.1AL	c 08	N72-25210 *	US-PATENT-CLASS-340-174	c 10	N71-29135 *	US-PATENT-CLASS-340-347SY	c 31	N86-29055 *
US-PATENT-CLASS-340-146.1AL	c 08	N73-12175 *	US-PATENT-CLASS-340-177VA	c 06	N80-18036 *	US-PATENT-CLASS-340-347	c 08	N70-35423 *
US-PATENT-CLASS-340-146.1AL	c 32	N77-12240 *	US-PATENT-CLASS-340-177	c 09	N72-17153 *	US-PATENT-CLASS-340-347	c 08	N70-40125 *
US-PATENT-CLASS-340-146.1AQ	c 08	N73-12177 *	US-PATENT-CLASS-340-182	c 33	N74-27862 *	US-PATENT-CLASS-340-347	c 08	N71-12501 *
US-PATENT-CLASS-340-146.1C	c 32	N74-32598 *	US-PATENT-CLASS-340-183	c 52	N74-26625 *	US-PATENT-CLASS-340-347	c 08	N71-18594 *
US-PATENT-CLASS-340-146.1AQ	c 32	N77-12240 *	US-PATENT-CLASS-340-189M	c 17	N76-29347 *	US-PATENT-CLASS-340-347	c 08	N71-19435 *
US-PATENT-CLASS-340-146.1AV	c 08	N73-12177 *	US-PATENT-CLASS-340-198	c 14	N70-33179 *	US-PATENT-CLASS-340-347	c 08	N71-19544 *
US-PATENT-CLASS-340-146.1AV	c 32	N77-12240 *	US-PATENT-CLASS-340-198	c 07	N71-11298 *	US-PATENT-CLASS-340-347	c 08	N71-19687 *
US-PATENT-CLASS-340-146.1AX	c 32	N79-10263 *	US-PATENT-CLASS-340-200	c 33	N74-27862 *	US-PATENT-CLASS-340-347	c 08	N71-24650 *
US-PATENT-CLASS-340-146.1C	c 07	N73-20176 *	US-PATENT-CLASS-340-200	c 33	N77-31404 *	US-PATENT-CLASS-340-347	c 10	N71-25917 *
US-PATENT-CLASS-340-146.1E	c 32	N79-10263 *	US-PATENT-CLASS-340-203	c 09	N72-22202 *	US-PATENT-CLASS-340-347	c 10	N71-26544 *
US-PATENT-CLASS-340-146.1	c 09	N71-18843 *	US-PATENT-CLASS-340-203	c 52	N74-26625 *	US-PATENT-CLASS-340-347	c 08	N73-28045 *
US-PATENT-CLASS-340-146.1	c 08	N71-22749 *	US-PATENT-CLASS-340-206	c 17	N76-29347 *	US-PATENT-CLASS-340-348	c 08	N72-22167 *
US-PATENT-CLASS-340-146.1	c 10	N71-26103 *	US-PATENT-CLASS-340-207P	c 17	N76-22245 *	US-PATENT-CLASS-340-38P	c 66	N76-19888 *
US-PATENT-CLASS-340-146.1	c 08	N71-27255 *	US-PATENT-CLASS-340-207R	c 52	N74-26625 *	US-PATENT-CLASS-340-403	c 10	N71-27272 *
US-PATENT-CLASS-340-146.1	c 08	N72-22167 *	US-PATENT-CLASS-340-207	c 07	N73-25160 *	US-PATENT-CLASS-340-407	c 71	N74-21014 *
US-PATENT-CLASS-340-146.1	c 08	N72-25207 *	US-PATENT-CLASS-340-210	c 03	N72-20031 *	US-PATENT-CLASS-340-407	c 82	N87-29372 *
US-PATENT-CLASS-340-146.1	c 07	N73-13149 *	US-PATENT-CLASS-340-213.1	c 10	N71-19417 *	US-PATENT-CLASS-340-412	c 10	N71-24798 *
US-PATENT-CLASS-340-146.2	c 08	N71-12505 *	US-PATENT-CLASS-340-213R	c 54	N78-32720 *	US-PATENT-CLASS-340-415	c 10	N73-32144 *
US-PATENT-CLASS-340-146.2	c 08	N71-23295 *	US-PATENT-CLASS-340-213	c 10	N71-27272 *	US-PATENT-CLASS-340-418	c 14	N73-16484 *
US-PATENT-CLASS-340-146.3H	c 74	N81-19896 *	US-PATENT-CLASS-340-223	c 10	N73-32144 *	US-PATENT-CLASS-340-5C	c 14	N73-27379 *
US-PATENT-CLASS-340-146.3P	c 43	N77-10584 *	US-PATENT-CLASS-340-224	c 37	N77-19458 *	US-PATENT-CLASS-340-5H	c 32	N77-21267 *
US-PATENT-CLASS-340-146.3Q	c 43	N77-10584 *	US-PATENT-CLASS-340-227R	c 14	N72-25412 *	US-PATENT-CLASS-340-5R	c 35	N74-16135 *
US-PATENT-CLASS-340-146.3S	c 74	N81-19896 *	US-PATENT-CLASS-340-227	c 10	N71-16058 *	US-PATENT-CLASS-340-518	c 35	N83-34272 *
US-PATENT-CLASS-340-146.3Y	c 74	N81-19896 *	US-PATENT-CLASS-340-227	c 14	N71-27186 *	US-PATENT-CLASS-340-555	c 74	N85-22139 *
US-PATENT-CLASS-340-147C	c 60	N76-14818 *	US-PATENT-CLASS-340-228.2	c 10	N72-17173 *	US-PATENT-CLASS-340-566	c 35	N83-34272 *
US-PATENT-CLASS-340-147R	c 07	N73-20176 *	US-PATENT-CLASS-340-228S	c 14	N73-16484 *	US-PATENT-CLASS-340-57	c 14	N71-15620 *
US-PATENT-CLASS-340-147R	c 60	N76-14818 *	US-PATENT-CLASS-340-233	c 14	N71-25901 *	US-PATENT-CLASS-340-580	c 35	N88-29149 *
US-PATENT-CLASS-340-147SY	c 17	N76-22245 *	US-PATENT-CLASS-340-235	c 10	N71-26334 *	US-PATENT-CLASS-340-602	c 33	N80-23559 *
US-PATENT-CLASS-340-147	c 09	N70-33182 *	US-PATENT-CLASS-340-237S	c 45	N76-17656 *	US-PATENT-CLASS-340-604	c 33	N80-23559 *
US-PATENT-CLASS-340-147	c 09	N70-38998 *	US-PATENT-CLASS-340-240	c 09	N72-27227 *	US-PATENT-CLASS-340-605	c 25	N86-27431 *
US-PATENT-CLASS-340-15GCG	c 14	N73-26432 *	US-PATENT-CLASS-340-242	c 35	N75-19612 *	US-PATENT-CLASS-340-650	c 33	N79-18193 *
US-PATENT-CLASS-340-150	c 10	N71-27272 *	US-PATENT-CLASS-340-248	c 10	N71-27338 *	US-PATENT-CLASS-340-664	c 33	N79-18193 *
US-PATENT-CLASS-340-151	c 33	N74-27862 *	US-PATENT-CLASS-340-258R	c 07	N73-25160 *	US-PATENT-CLASS-340-683	c 37	N91-14607 *
US-PATENT-CLASS-340-163	c 07	N73-20176 *	US-PATENT-CLASS-340-258	c 10	N72-28240 *	US-PATENT-CLASS-340-692	c 76	N90-24168 *
US-PATENT-CLASS-340-164	c 10	N71-27272 *	US-PATENT-CLASS-340-25	c 14	N73-16483 *	US-PATENT-CLASS-340-705	c 06	N84-27733 *
US-PATENT-CLASS-340-166	c 10	N71-27272 *	US-PATENT-CLASS-340-262	c 54	N78-32720 *	US-PATENT-CLASS-340-8LF	c 71	N79-23753 *
US-PATENT-CLASS-340-166	c 10	N73-32144 *	US-PATENT-CLASS-340-26	c 21	N72-22619 *	US-PATENT-CLASS-340-8R	c 35	N74-16135 *
US-PATENT-CLASS-340-167	c 07	N72-25173 *	US-PATENT-CLASS-340-26	c 04	N82-16059 *	US-PATENT-CLASS-340-825.21	c 60	N84-28492 *
US-PATENT-CLASS-340-171	c 09	N72-22202 *	US-PATENT-CLASS-340-27AT	c 21	N73-14692 *	US-PATENT-CLASS-340-825.5	c 60	N84-28492 *
US-PATENT-CLASS-340-171	c 16	N73-16536 *	US-PATENT-CLASS-340-27NA	c 21	N73-13643 *	US-PATENT-CLASS-340-825.5	c 17	N87-16863 *
US-PATENT-CLASS-340-172.5	c 08	N69-21928 *	US-PATENT-CLASS-340-27NA	c 06	N82-16075 *	US-PATENT-CLASS-340-825.5	c 62	N91-14772 *
US-PATENT-CLASS-340-172.5	c 09	N69-24333 *	US-PATENT-CLASS-340-27R	c 14	N73-16483 *	US-PATENT-CLASS-340-825.69	c 35	N90-23707 *
US-PATENT-CLASS-340-172.5	c 08	N71-12502 *	US-PATENT-CLASS-340-27R	c 14	N73-20474 *	US-PATENT-CLASS-340-825.89	c 33	N82-29538 *
US-PATENT-CLASS-340-172.5	c 08	N71-12506 *	US-PATENT-CLASS-340-27SS	c 35	N78-14364 *	US-PATENT-CLASS-340-870.13	c 35	N84-22934 *
US-PATENT-CLASS-340-172.5	c 31	N71-15566 *	US-PATENT-CLASS-340-271	c 35	N77-30436 *	US-PATENT-CLASS-340-870.18	c 17	N87-16863 *
US-PATENT-CLASS-340-172.5	c 08	N71-19288 *	US-PATENT-CLASS-340-277	c 10	N73-30205 *	US-PATENT-CLASS-340-870.24	c 33	N81-14221 *
US-PATENT-CLASS-340-172.5	c 08	N71-22707 *	US-PATENT-CLASS-340-279	c 05	N72-16015 *	US-PATENT-CLASS-340-905	c 35	N84-33769 *
US-PATENT-CLASS-340-172.5	c 08	N71-22710 *	US-PATENT-CLASS-340-279	c 10	N73-30205 *	US-PATENT-CLASS-340-945	c 06	N87-22678 *
US-PATENT-CLASS-340-172.5	c 07	N71-24624 *	US-PATENT-CLASS-340-279	c 54	N78-32720 *	US-PATENT-CLASS-340-967	c 08	N87-20999 *
US-PATENT-CLASS-340-172.5	c 08	N71-27255 *	US-PATENT-CLASS-340-285	c 14	N71-25901 *	US-PATENT-CLASS-340-968	c 06	N86-27280 *
US-PATENT-CLASS-340-172.5	c 07	N72-25172 *	US-PATENT-CLASS-340-285	c 54	N78-32720 *	US-PATENT-CLASS-340-971	c 06	N84-27733 *
US-PATENT-CLASS-340-172.5	c 08	N72-25207 *	US-PATENT-CLASS-340-309.1	c 54	N78-32720 *	US-PATENT-CLASS-340-971	c 06	N87-22678 *
US-PATENT-CLASS-340-172.5	c 09	N72-25248 *	US-PATENT-CLASS-340-309.4	c 33	N81-14221 *	US-PATENT-CLASS-340-975	c 06	N84-27733 *
US-PATENT-CLASS-340-172.5	c 08	N73-13187 *	US-PATENT-CLASS-340-310A	c 33	N81-14221 *	US-PATENT-CLASS-340-975	c 06	N87-22678 *
US-PATENT-CLASS-340-172.5	c 08	N73-26176 *	US-PATENT-CLASS-340-310R	c 33	N81-14221 *	US-PATENT-CLASS-340-978	c 06	N84-27733 *
US-PATENT-CLASS-340-172.5	c 60	N76-18800 *	US-PATENT-CLASS-340-324AD	c 33	N75-19517 *	US-PATENT-CLASS-340-97	c 21	N73-13643 *
US-PATENT-CLASS-340-172.5	c 60	N76-21914 *	US-PATENT-CLASS-340-324A	c 09	N72-25248 *	US-PATENT-CLASS-340-980	c 06	N84-27733 *
US-PATENT-CLASS-340-172.5	c 60	N77-12721 *	US-PATENT-CLASS-340-324R	c 26	N72-25680 *	US-PATENT-CLASS-340-988	c 35	N84-33769 *
US-PATENT-CLASS-340-172.5	c 60	N77-14751 *	US-PATENT-CLASS-340-324	c 08	N71-12507 *	US-PATENT-CLASS-342-105	c 32	N90-20280 *
US-PATENT-CLASS-340-172.5	c 60	N77-19760 *	US-PATENT-CLASS-340-324	c 09	N71-33519 *	US-PATENT-CLASS-342-114	c 32	N90-20280 *
US-PATENT-CLASS-340-173.2	c 08	N72-21198 *	US-PATENT-CLASS-340-332	c 09	N72-25250 *	US-PATENT-CLASS-342-125	c 32	N88-26568 *
US-PATENT-CLASS-340-173CA	c 33	N75-31331 *	US-PATENT-CLASS-340-336	c 09	N71-33519 *	US-PATENT-CLASS-342-127	c 32	N88-26568 *
US-PATENT-CLASS-340-173CR	c 60	N74-12888 *	US-PATENT-CLASS-340-33	c 21	N73-13643 *	US-PATENT-CLASS-342-165	c 32	N89-28672 *
US-PATENT-CLASS-340-173LM	c 60	N74-12888 *	US-PATENT-CLASS-340-347AD	c 14	N71-28991 *	US-PATENT-CLASS-342-191	c 43	N91-32546 *
US-PATENT-CLASS-340-173LS	c 60	N78-10709 *	US-PATENT-CLASS-340-347AD	c 08	N72-21200 *	US-PATENT-CLASS-342-195	c 33	N89-14384 *
US-PATENT-CLASS-340-173LS	c 08	N72-21198 *	US-PATENT-CLASS-340-347AD	c 08	N72-22163 *	US-PATENT-CLASS-342-195	c 32	N90-20280 *
US-PATENT-CLASS-340-173LS	c 36	N75-19652 *	US-PATENT-CLASS-340-347AD	c 08	N72-22166 *	US-PATENT-CLASS-342-1	c 32	N89-28672 *
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US-PATENT-CLASS-343-853	c 32	N74-20864 *	US-PATENT-CLASS-350-100	c 36	N77-25501 *	US-PATENT-CLASS-350-293	c 44	N78-10554 *
US-PATENT-CLASS-343-854	c 07	N69-27460 *	US-PATENT-CLASS-350-102	c 23	N71-29123 *	US-PATENT-CLASS-350-293	c 44	N79-14529 *
US-PATENT-CLASS-343-854	c 07	N71-27233 *	US-PATENT-CLASS-350-102	c 36	N77-25501 *	US-PATENT-CLASS-350-294	c 89	N79-10969 *
US-PATENT-CLASS-343-854	c 09	N73-19234 *	US-PATENT-CLASS-350-102	c 18	N91-27200 *	US-PATENT-CLASS-350-294	c 44	N79-24432 *
US-PATENT-CLASS-343-854	c 33	N74-20860 *	US-PATENT-CLASS-350-107	c 18	N91-27200 *	US-PATENT-CLASS-350-294	c 32	N80-24510 *
US-PATENT-CLASS-343-854	c 33	N76-27472 *	US-PATENT-CLASS-350-138	c 23	N72-27728 *	US-PATENT-CLASS-350-295	c 44	N77-32583 *
US-PATENT-CLASS-343-854	c 32	N79-11264 *	US-PATENT-CLASS-350-145	c 74	N77-20882 *	US-PATENT-CLASS-350-295	c 44	N80-14473 *
US-PATENT-CLASS-343-854	c 32	N80-28578 *	US-PATENT-CLASS-350-147	c 14	N72-27409 *	US-PATENT-CLASS-350-296	c 44	N79-24432 *
US-PATENT-CLASS-343-872	c 07	N71-28980 *	US-PATENT-CLASS-350-150	c 26	N72-25680 *	US-PATENT-CLASS-350-296	c 44	N80-14473 *
US-PATENT-CLASS-343-873	c 07	N71-19493 *	US-PATENT-CLASS-350-150	c 36	N76-18427 *	US-PATENT-CLASS-350-299	c 74	N74-21304 *
US-PATENT-CLASS-343-873	c 09	N72-25247 *	US-PATENT-CLASS-350-151	c 36	N74-13205 *	US-PATENT-CLASS-350-299	c 44	N76-24696 *
US-PATENT-CLASS-343-876	c 32	N76-15329 *	US-PATENT-CLASS-350-151	c 35	N78-29421 *	US-PATENT-CLASS-350-299	c 74	N77-28932 *
US-PATENT-CLASS-343-876	c 32	N85-29118 *	US-PATENT-CLASS-350-157	c 74	N79-14891 *	US-PATENT-CLASS-350-299	c 44	N78-10554 *
US-PATENT-CLASS-343-880	c 07	N73-26117 *	US-PATENT-CLASS-350-159	c 74	N78-17885 *	US-PATENT-CLASS-350-299	c 44	N78-31526 *
US-PATENT-CLASS-343-880	c 18	N80-14183 *	US-PATENT-CLASS-350-160R	c 14	N72-25410 *	US-PATENT-CLASS-350-299	c 44	N79-11471 *
US-PATENT-CLASS-343-880	c 32	N89-25363 *	US-PATENT-CLASS-350-160R	c 26	N72-25680 *	US-PATENT-CLASS-350-299	c 44	N79-24433 *
US-PATENT-CLASS-343-881	c 37	N86-25789 *	US-PATENT-CLASS-350-160	c 36	N76-18427 *	US-PATENT-CLASS-350-299	c 36	N84-14509 *
US-PATENT-CLASS-343-882	c 33	N76-32457 *	US-PATENT-CLASS-350-161	c 26	N72-27784 *	US-PATENT-CLASS-350-2	c 23	N71-30027 *
US-PATENT-CLASS-343-882	c 37	N86-25789 *	US-PATENT-CLASS-350-161	c 36	N75-31427 *	US-PATENT-CLASS-350-3.5	c 16	N71-15551 *
US-PATENT-CLASS-343-883	c 07	N73-26117 *	US-PATENT-CLASS-350-162.13	c 74	N89-14078 *	US-PATENT-CLASS-350-3.5	c 16	N71-15565 *
US-PATENT-CLASS-343-883	c 18	N80-14183 *	US-PATENT-CLASS-350-162.13	c 74	N91-25840 *	US-PATENT-CLASS-350-3.5	c 16	N71-15567 *
US-PATENT-CLASS-343-883	c 37	N86-25791 *	US-PATENT-CLASS-350-162R	c 74	N80-21140 *	US-PATENT-CLASS-350-3.5	c 16	N71-26154 *
US-PATENT-CLASS-343-884	c 07	N71-27191 *	US-PATENT-CLASS-350-162SF	c 23	N73-30666 *	US-PATENT-CLASS-350-3.5	c 16	N71-29131 *
US-PATENT-CLASS-343-889	c 07	N73-26117 *	US-PATENT-CLASS-350-162SF	c 74	N76-31998 *	US-PATENT-CLASS-350-3.5	c 14	N72-17324 *
US-PATENT-CLASS-343-893	c 09	N72-21244 *	US-PATENT-CLASS-350-162SF	c 74	N77-28932 *	US-PATENT-CLASS-350-3.5	c 16	N73-30476 *
US-PATENT-CLASS-343-893	c 07	N73-28013 *	US-PATENT-CLASS-350-162SF	c 36	N77-32478 *	US-PATENT-CLASS-350-3.5	c 35	N74-15146 *
US-PATENT-CLASS-343-895	c 09	N73-19234 *	US-PATENT-CLASS-350-162	c 14	N72-17323 *	US-PATENT-CLASS-350-3.5	c 35	N74-17153 *
US-PATENT-CLASS-343-895	c 07	N73-26117 *	US-PATENT-CLASS-350-163	c 36	N88-14350 *	US-PATENT-CLASS-350-3.5	c 35	N74-26946 *
US-PATENT-CLASS-343-895	c 32	N80-23524 *	US-PATENT-CLASS-350-165	c 27	N78-31233 *	US-PATENT-CLASS-350-3.5	c 35	N75-25124 *
US-PATENT-CLASS-343-895	c 32	N82-27558 *	US-PATENT-CLASS-350-166	c 44	N83-34448 *	US-PATENT-CLASS-350-3.5	c 35	N75-27328 *
US-PATENT-CLASS-343-9PS	c 32	N83-19968 *	US-PATENT-CLASS-350-168	c 74	N85-23396 *	US-PATENT-CLASS-350-3.5	c 35	N76-18402 *
US-PATENT-CLASS-343-9PS	c 32	N83-31918 *	US-PATENT-CLASS-350-16	c 14	N72-22444 *	US-PATENT-CLASS-350-3.5	c 35	N78-17357 *
US-PATENT-CLASS-343-9R	c 32	N84-22820 *	US-PATENT-CLASS-350-170	c 73	N78-32848 *	US-PATENT-CLASS-350-3.5	c 38	N78-32447 *
US-PATENT-CLASS-343-909	c 32	N74-11000 *	US-PATENT-CLASS-350-170	c 74	N83-10900 *	US-PATENT-CLASS-350-3.64	c 35	N91-13694 *
US-PATENT-CLASS-343-909	c 35	N76-15435 *	US-PATENT-CLASS-350-171	c 23	N72-23695 *	US-PATENT-CLASS-350-3.68	c 74	N91-25840 *
US-PATENT-CLASS-343-909	c 33	N79-28416 *	US-PATENT-CLASS-350-171	c 74	N83-17305 *	US-PATENT-CLASS-350-3.73	c 36	N87-23960 *
US-PATENT-CLASS-343-909	c 32	N80-14281 *	US-PATENT-CLASS-350-172	c 74	N84-23248 *	US-PATENT-CLASS-350-3.81	c 36	N87-23960 *
US-PATENT-CLASS-343-912	c 07	N72-21117 *	US-PATENT-CLASS-350-173	c 73	N78-32848 *	US-PATENT-CLASS-350-301	c 74	N81-17886 *
US-PATENT-CLASS-343-912	c 07	N72-22127 *	US-PATENT-CLASS-350-173	c 74	N83-36898 *	US-PATENT-CLASS-350-310	c 11	N69-24321 *
US-PATENT-CLASS-343-912	c 32	N76-18295 *	US-PATENT-CLASS-350-173	c 74	N84-23248 *	US-PATENT-CLASS-350-310	c 23	N71-24868 *
US-PATENT-CLASS-343-915	c 31	N71-16102 *	US-PATENT-CLASS-350-174	c 74	N77-20882 *	US-PATENT-CLASS-350-310	c 23	N71-29123 *
US-PATENT-CLASS-343-915	c 09	N71-20658 *	US-PATENT-CLASS-350-174	c 73	N78-32848 *	US-PATENT-CLASS-350-310	c 23	N71-33229 *
US-PATENT-CLASS-343-915	c 07	N72-32169 *	US-PATENT-CLASS-350-174	c 36	N88-14350 *	US-PATENT-CLASS-350-310	c 23	N72-22673 *
US-PATENT-CLASS-343-915	c 07	N73-14130 *	US-PATENT-CLASS-350-175E	c 74	N80-27185 *	US-PATENT-CLASS-350-310	c 74	N77-28933 *
US-PATENT-CLASS-343-915	c 07	N73-24176 *	US-PATENT-CLASS-350-175FS	c 14	N72-25414 *	US-PATENT-CLASS-350-311	c 74	N75-25706 *
US-PATENT-CLASS-343-915	c 32	N76-18295 *	US-PATENT-CLASS-350-175NG	c 27	N78-31233 *	US-PATENT-CLASS-350-312	c 16	N72-12440 *
US-PATENT-CLASS-343-915	c 33	N76-32457 *	US-PATENT-CLASS-350-189	c 23	N71-24857 *	US-PATENT-CLASS-350-312	c 74	N85-29750 *
US-PATENT-CLASS-343-915	c 32	N89-25363 *	US-PATENT-CLASS-350-199	c 14	N73-30393 *	US-PATENT-CLASS-350-315	c 74	N86-29650 *
US-PATENT-CLASS-343-9	c 32	N75-15854 *	US-PATENT-CLASS-350-19	c 14	N72-22441 *	US-PATENT-CLASS-350-316	c 27	N83-36220 *
US-PATENT-CLASS-343-9	c 32	N79-10264 *	US-PATENT-CLASS-350-1	c 23	N69-24332 *	US-PATENT-CLASS-350-318	c 74	N86-29650 *
US-PATENT-CLASS-346-107A	c 14	N72-18411 *	US-PATENT-CLASS-350-1	c 07	N71-29065 *	US-PATENT-CLASS-350-319	c 74	N85-29750 *
US-PATENT-CLASS-346-107	c 23	N71-23976 *	US-PATENT-CLASS-350-1	c 16	N72-12440 *	US-PATENT-CLASS-350-319	c 74	N86-20125 *
US-PATENT-CLASS-346-108	c 35	N74-15831 *	US-PATENT-CLASS-350-1	c 24	N76-24363 *	US-PATENT-CLASS-350-319	c 09	N87-14355 *
US-PATENT-CLASS-346-110	c 14	N73-32322 *	US-PATENT-CLASS-350-1	c 74	N78-15879 *	US-PATENT-CLASS-350-320	c 74	N77-28933 *
US-PATENT-CLASS-346-138	c 21	N73-13644 *	US-PATENT-CLASS-350-202	c 23	N73-20741 *	US-PATENT-CLASS-350-320	c 44	N77-32583 *
US-PATENT-CLASS-346-138	c 35	N74-15831 *	US-PATENT-CLASS-350-202	c 74	N77-28932 *	US-PATENT-CLASS-350-320	c 73	N78-32848 *
US-PATENT-CLASS-346-1	c 12	N71-20815 *	US-PATENT-CLASS-350-203	c 14	N72-25409 *	US-PATENT-CLASS-350-320	c 44	N79-14529 *
US-PATENT-CLASS-346-1	c 09	N72-21246 *	US-PATENT-CLASS-350-204	c 14	N73-30393 *	US-PATENT-CLASS-350-320	c 74	N85-29749 *
US-PATENT-CLASS-346-23	c 14	N72-18411 *	US-PATENT-CLASS-350-204	c 74	N78-17886 *	US-PATENT-CLASS-350-320	c 35	N91-13694 *
US-PATENT-CLASS-346-24	c 35	N74-15831 *	US-PATENT-CLASS-350-211	c 44	N76-14602 *	US-PATENT-CLASS-350-321	c 74	N85-29750 *
US-PATENT-CLASS-346-29	c 09	N72-21246 *	US-PATENT-CLASS-350-213	c 14	N71-15622 *	US-PATENT-CLASS-350-331-R	c 74	N89-14078 *
US-PATENT-CLASS-346-33R	c 35	N74-32877 *	US-PATENT-CLASS-350-226	c 74	N80-27185 *	US-PATENT-CLASS-350-335	c 74	N86-21348 *
US-PATENT-CLASS-346-44	c 09	N69-21467 *	US-PATENT-CLASS-350-236	c 74	N74-15095 *	US-PATENT-CLASS-350-337	c 74	N89-14078 *
US-PATENT-CLASS-346-50	c 14	N71-21006 *	US-PATENT-CLASS-350-23	c 14	N72-22441 *	US-PATENT-CLASS-350-342	c 76	N85-33826 *
US-PATENT-CLASS-346-74MD	c 21	N73-13644 *	US-PATENT-CLASS-350-253	c 35	N77-27366 *	US-PATENT-CLASS-350-342	c 74	N89-14078 *
US-PATENT-CLASS-346-74MT	c 35	N79-16246 *	US-PATENT-CLASS-350-25	c 74	N80-21138 *	US-PATENT-CLASS-350-353	c 74	N83-19597 *
US-PATENT-CLASS-346R	c 73	N77-18891 *	US-PATENT-CLASS-350-269	c 33	N74-20861 *	US-PATENT-CLASS-350-353	c 74	N91-26918 *
US-PATENT-CLASS-349	c 25	N79-28253 *	US-PATENT-CLASS-350-26	c 14	N72-22441 *	US-PATENT-CLASS-350-354	c 32	N86-20647 *
US-PATENT-CLASS-35-10.2	c 14	N71-15621 *	US-PATENT-CLASS-350-270	c 70	N74-21300 *	US-PATENT-CLASS-350-354	c 74	N89-14077 *
US-PATENT-CLASS-35-12C	c 14	N73-27377 *	US-PATENT-CLASS-350-275	c 09	N71-19479 *	US-PATENT-CLASS-350-354	c 35	N91-13694 *
US-PATENT-CLASS-35-12C	c 09	N75-15662 *	US-PATENT-CLASS-350-276-R	c 74	N86-20125 *	US-PATENT-CLASS-350-354	c 74	N91-26918 *
US-PATENT-CLASS-35-12C	c 74	N79-13855 *	US-PATENT-CLASS-350-276R	c 74	N86-28732 *	US-PATENT-CLASS-350-356	c 74	N90-22383 *
US-PATENT-CLASS-35-12E	c 09	N74-30597 *	US-PATENT-CLASS-350-285	c 14	N71-15605 *	US-PATENT-CLASS-350-358	c 36	N82-29589 *
US-PATENT-CLASS-35-12E	c 09	N79-31228 *	US-PATENT-CLASS-350-285	c 14	N71-17662 *	US-PATENT-CLASS-350-358	c 74	N91-26918 *
US-PATENT-CLASS-35-12H	c 09	N79-31228 *	US-PATENT-CLASS-350-285	c 19	N71-26674 *	US-PATENT-CLASS-350-359	c 36	N80-16321 *
US-PATENT-CLASS-35-12N	c 09	N76-24280 *	US-PATENT-CLASS-350-285	c 15	N72-11386 *	US-PATENT-CLASS-350-35	c 14	N72-22441 *
US-PATENT-CLASS-35-12N	c 09	N78-18083 *	US-PATENT-CLASS-350-285	c 16	N73-33397 *	US-PATENT-CLASS-350-36	c 14	N72-22441 *
US-PATENT-CLASS-35-12N	c 74	N79-13855 *	US-PATENT-CLASS-350-285	c 74	N74-15095 *	US-PATENT-CLASS-350-370	c 35	N81-33448 *
US-PATENT-CLASS-35-12	c 11	N70-34815 *	US-PATENT-CLASS-350-285	c 74	N80-21138 *	US-PATENT-CLASS-350-443	c 74	N84-23248 *
US-PATENT-CLASS-35-12	c 31	N70-34966 *	US-PATENT-CLASS-350-286	c 07	N71-29065 *	US-PATENT-CLASS-350-445	c 74	N83-36898 *

US-PATENT-CLASS-350-448	c 74	N86-20125 *	US-PATENT-CLASS-356-108	c 16	N73-30476 *	US-PATENT-CLASS-356-234	c 35	N84-22931 *
US-PATENT-CLASS-350-453	c 36	N82-32712 *	US-PATENT-CLASS-356-109	c 16	N73-30476 *	US-PATENT-CLASS-356-236	c 74	N77-21941 *
US-PATENT-CLASS-350-486	c 74	N83-13978 *	US-PATENT-CLASS-356-110	c 14	N73-25463 *	US-PATENT-CLASS-356-236	c 74	N86-26190 *
US-PATENT-CLASS-350-49	c 14	N72-22441 *	US-PATENT-CLASS-356-110	c 35	N78-18391 *	US-PATENT-CLASS-356-237	c 74	N77-10899 *
US-PATENT-CLASS-350-500	c 35	N91-14590 *	US-PATENT-CLASS-356-112	c 72	N74-19310 *	US-PATENT-CLASS-356-237	c 38	N78-17395 *
US-PATENT-CLASS-350-505	c 74	N85-23396 *	US-PATENT-CLASS-356-113	c 14	N72-17323 *	US-PATENT-CLASS-356-237	c 38	N78-17396 *
US-PATENT-CLASS-350-505	c 74	N86-28732 *	US-PATENT-CLASS-356-113	c 35	N74-23040 *	US-PATENT-CLASS-356-237	c 35	N79-28527 *
US-PATENT-CLASS-350-529	c 37	N91-21545 *	US-PATENT-CLASS-356-114	c 14	N73-12446 *	US-PATENT-CLASS-356-239	c 74	N77-10899 *
US-PATENT-CLASS-350-52	c 14	N72-22441 *	US-PATENT-CLASS-356-114	c 35	N76-31490 *	US-PATENT-CLASS-356-241	c 14	N72-32452 *
US-PATENT-CLASS-350-52	c 14	N72-22444 *	US-PATENT-CLASS-356-117	c 23	N71-16101 *	US-PATENT-CLASS-356-243	c 36	N80-16321 *
US-PATENT-CLASS-350-537	c 74	N86-20125 *	US-PATENT-CLASS-356-120	c 74	N78-27904 *	US-PATENT-CLASS-356-244	c 14	N72-17323 *
US-PATENT-CLASS-350-55	c 23	N71-33229 *	US-PATENT-CLASS-356-123	c 74	N76-19935 *	US-PATENT-CLASS-356-244	c 35	N76-31490 *
US-PATENT-CLASS-350-55	c 14	N73-30393 *	US-PATENT-CLASS-356-124	c 74	N76-19935 *	US-PATENT-CLASS-356-244	c 35	N80-28687 *
US-PATENT-CLASS-350-55	c 23	N73-30666 *	US-PATENT-CLASS-356-124	c 74	N79-11865 *	US-PATENT-CLASS-356-244	c 74	N86-26190 *
US-PATENT-CLASS-350-55	c 89	N79-10969 *	US-PATENT-CLASS-356-128	c 76	N87-25862 *	US-PATENT-CLASS-356-246	c 35	N74-27860 *
US-PATENT-CLASS-350-55	c 74	N80-33210 *	US-PATENT-CLASS-356-129	c 74	N79-20856 *	US-PATENT-CLASS-356-246	c 74	N78-17867 *
US-PATENT-CLASS-350-572	c 36	N88-14350 *	US-PATENT-CLASS-356-129	c 76	N87-25862 *	US-PATENT-CLASS-356-246	c 74	N87-14971 *
US-PATENT-CLASS-350-573	c 36	N88-14350 *	US-PATENT-CLASS-356-138	c 14	N72-20379 *	US-PATENT-CLASS-356-248	c 14	N72-22444 *
US-PATENT-CLASS-350-576	c 35	N91-14591 *	US-PATENT-CLASS-356-138	c 16	N73-33397 *	US-PATENT-CLASS-356-256	c 36	N87-28006 *
US-PATENT-CLASS-350-580	c 74	N86-20125 *	US-PATENT-CLASS-356-141	c 14	N72-27409 *	US-PATENT-CLASS-356-28.5	c 32	N80-24510 *
US-PATENT-CLASS-350-58	c 14	N71-15604 *	US-PATENT-CLASS-356-141	c 14	N73-28490 *	US-PATENT-CLASS-356-28.5	c 36	N81-24422 *
US-PATENT-CLASS-350-6.5	c 32	N80-24510 *	US-PATENT-CLASS-356-141	c 36	N74-21091 *	US-PATENT-CLASS-356-28.5	c 36	N82-32712 *
US-PATENT-CLASS-350-6.5	c 74	N87-21679 *	US-PATENT-CLASS-356-141	c 89	N74-30886 *	US-PATENT-CLASS-356-28.5	c 35	N86-32697 *
US-PATENT-CLASS-350-6.6	c 32	N80-24510 *	US-PATENT-CLASS-356-141	c 74	N77-22951 *	US-PATENT-CLASS-356-28.5	c 35	N87-14669 *
US-PATENT-CLASS-350-619	c 74	N85-23396 *	US-PATENT-CLASS-356-141	c 09	N91-14356 *	US-PATENT-CLASS-356-28.5	c 36	N87-17026 *
US-PATENT-CLASS-350-6	c 14	N69-27461 *	US-PATENT-CLASS-356-141	c 35	N91-15512 *	US-PATENT-CLASS-356-28.5	c 36	N88-14350 *
US-PATENT-CLASS-350-6	c 36	N74-15145 *	US-PATENT-CLASS-356-147	c 89	N74-30886 *	US-PATENT-CLASS-356-28.5	c 33	N89-14384 *
US-PATENT-CLASS-350-79	c 14	N72-32452 *	US-PATENT-CLASS-356-148	c 16	N73-33397 *	US-PATENT-CLASS-356-28.5	c 33	N89-14385 *
US-PATENT-CLASS-350-7	c 74	N74-15095 *	US-PATENT-CLASS-356-150	c 15	N71-28740 *	US-PATENT-CLASS-356-28.5	c 36	N90-25340 *
US-PATENT-CLASS-350-86	c 14	N72-22445 *	US-PATENT-CLASS-356-150	c 74	N80-21138 *	US-PATENT-CLASS-356-28	c 21	N71-19212 *
US-PATENT-CLASS-350-96.10	c 74	N84-11921 *	US-PATENT-CLASS-356-152	c 15	N71-28740 *	US-PATENT-CLASS-356-28	c 16	N71-24828 *
US-PATENT-CLASS-350-96.15	c 74	N84-11921 *	US-PATENT-CLASS-356-152	c 16	N72-13437 *	US-PATENT-CLASS-356-28	c 72	N74-19310 *
US-PATENT-CLASS-350-96.15	c 74	N85-29749 *	US-PATENT-CLASS-356-152	c 14	N72-20379 *	US-PATENT-CLASS-356-28	c 36	N75-15028 *
US-PATENT-CLASS-350-96.16	c 74	N83-29032 *	US-PATENT-CLASS-356-152	c 14	N72-27409 *	US-PATENT-CLASS-356-28	c 35	N75-16783 *
US-PATENT-CLASS-350-96.21	c 74	N89-25689 *	US-PATENT-CLASS-356-152	c 14	N73-25462 *	US-PATENT-CLASS-356-28	c 36	N76-14447 *
US-PATENT-CLASS-350-96.25	c 33	N81-29342 *	US-PATENT-CLASS-356-152	c 36	N74-15145 *	US-PATENT-CLASS-356-28	c 36	N77-25501 *
US-PATENT-CLASS-350-96.25	c 74	N89-25689 *	US-PATENT-CLASS-356-152	c 36	N74-21091 *	US-PATENT-CLASS-356-28	c 74	N78-17866 *
US-PATENT-CLASS-350-96.29	c 74	N91-21871 *	US-PATENT-CLASS-356-152	c 74	N74-21304 *	US-PATENT-CLASS-356-28	c 35	N79-18296 *
US-PATENT-CLASS-350-96R	c 60	N77-14751 *	US-PATENT-CLASS-356-152	c 74	N77-22951 *	US-PATENT-CLASS-356-28	c 36	N80-16321 *
US-PATENT-CLASS-350-96R	c 60	N77-32731 *	US-PATENT-CLASS-356-152	c 74	N80-21138 *	US-PATENT-CLASS-356-28	c 36	N87-17026 *
US-PATENT-CLASS-350-96R	c 60	N78-10709 *	US-PATENT-CLASS-356-152	c 37	N81-27519 *	US-PATENT-CLASS-356-28	c 36	N90-25340 *
US-PATENT-CLASS-350-96WG	c 36	N75-31427 *	US-PATENT-CLASS-356-152	c 09	N91-14356 *	US-PATENT-CLASS-356-28	c 02	N92-34172 *
US-PATENT-CLASS-350-96WG	c 36	N76-18428 *	US-PATENT-CLASS-356-152	c 35	N91-15512 *	US-PATENT-CLASS-356-300	c 43	N79-17288 *
US-PATENT-CLASS-350-96WG	c 36	N76-24553 *	US-PATENT-CLASS-356-153	c 15	N71-28740 *	US-PATENT-CLASS-356-301	c 35	N87-14669 *
US-PATENT-CLASS-350-96	c 07	N71-26291 *	US-PATENT-CLASS-356-153	c 23	N71-29125 *	US-PATENT-CLASS-356-311	c 35	N86-25753 *
US-PATENT-CLASS-350-97	c 18	N91-27200 *	US-PATENT-CLASS-356-153	c 16	N73-33397 *	US-PATENT-CLASS-356-318	c 35	N86-25753 *
US-PATENT-CLASS-351-166	c 74	N78-32854 *	US-PATENT-CLASS-356-153	c 18	N76-14186 *	US-PATENT-CLASS-356-318	c 02	N92-34172 *
US-PATENT-CLASS-351-203	c 52	N89-16256 *	US-PATENT-CLASS-356-154	c 15	N71-26673 *	US-PATENT-CLASS-356-323	c 74	N85-23396 *
US-PATENT-CLASS-351-206	c 52	N87-24874 *	US-PATENT-CLASS-356-159	c 36	N78-14380 *	US-PATENT-CLASS-356-328	c 35	N80-26635 *
US-PATENT-CLASS-351-206	c 52	N92-28755 *	US-PATENT-CLASS-356-160	c 36	N78-14380 *	US-PATENT-CLASS-356-32	c 14	N72-11364 *
US-PATENT-CLASS-351-208	c 52	N87-24874 *	US-PATENT-CLASS-356-161	c 26	N73-26751 *	US-PATENT-CLASS-356-32	c 32	N73-27040 *
US-PATENT-CLASS-351-221	c 52	N89-28755 *	US-PATENT-CLASS-356-162	c 66	N78-19888 *	US-PATENT-CLASS-356-32	c 39	N81-25400 *
US-PATENT-CLASS-351-237	c 52	N89-16256 *	US-PATENT-CLASS-356-165	c 38	N78-17396 *	US-PATENT-CLASS-356-330	c 74	N85-23396 *
US-PATENT-CLASS-351-23	c 05	N73-26072 *	US-PATENT-CLASS-356-166	c 14	N71-23175 *	US-PATENT-CLASS-356-331	c 74	N85-23396 *
US-PATENT-CLASS-351-23	c 52	N76-30793 *	US-PATENT-CLASS-356-167	c 14	N72-11364 *	US-PATENT-CLASS-356-334	c 74	N80-21140 *
US-PATENT-CLASS-351-30	c 05	N73-26072 *	US-PATENT-CLASS-356-167	c 66	N76-19888 *	US-PATENT-CLASS-356-345	c 74	N81-17888 *
US-PATENT-CLASS-351-30	c 52	N76-30793 *	US-PATENT-CLASS-356-167	c 74	N78-27904 *	US-PATENT-CLASS-356-345	c 74	N81-29963 *
US-PATENT-CLASS-351-36	c 05	N73-26072 *	US-PATENT-CLASS-356-169	c 60	N78-10709 *	US-PATENT-CLASS-356-345	c 36	N84-14509 *
US-PATENT-CLASS-351-36	c 52	N76-30793 *	US-PATENT-CLASS-356-171	c 74	N77-22950 *	US-PATENT-CLASS-356-345	c 74	N86-21348 *
US-PATENT-CLASS-351-38	c 54	N75-27759 *	US-PATENT-CLASS-356-172	c 16	N73-33397 *	US-PATENT-CLASS-356-345	c 74	N91-21871 *
US-PATENT-CLASS-352-169	c 14	N73-14427 *	US-PATENT-CLASS-356-172	c 36	N74-21091 *	US-PATENT-CLASS-356-346	c 35	N80-20563 *
US-PATENT-CLASS-352-171	c 35	N82-26628 *	US-PATENT-CLASS-356-172	c 74	N77-22951 *	US-PATENT-CLASS-356-346	c 74	N81-29963 *
US-PATENT-CLASS-352-84	c 16	N71-33410 *	US-PATENT-CLASS-356-17	c 14	N72-21409 *	US-PATENT-CLASS-356-347	c 35	N84-22929 *
US-PATENT-CLASS-352-84	c 14	N72-18411 *	US-PATENT-CLASS-356-180	c 35	N74-27860 *	US-PATENT-CLASS-356-347	c 35	N89-26202 *
US-PATENT-CLASS-353-54	c 34	N74-23066 *	US-PATENT-CLASS-356-186	c 35	N75-19613 *	US-PATENT-CLASS-356-349	c 36	N82-16396 *
US-PATENT-CLASS-353-61	c 34	N74-23066 *	US-PATENT-CLASS-356-188	c 35	N84-33766 *	US-PATENT-CLASS-356-350	c 35	N81-33448 *
US-PATENT-CLASS-354-118	c 74	N81-17886 *	US-PATENT-CLASS-356-189	c 35	N75-19613 *	US-PATENT-CLASS-356-350	c 74	N87-32359 *
US-PATENT-CLASS-354-217	c 35	N82-26628 *	US-PATENT-CLASS-356-189	c 35	N84-33766 *	US-PATENT-CLASS-356-351	c 35	N81-33448 *
US-PATENT-CLASS-354-234	c 33	N74-20861 *	US-PATENT-CLASS-356-18	c 14	N72-21409 *	US-PATENT-CLASS-356-351	c 35	N85-30282 *
US-PATENT-CLASS-354-234	c 70	N74-21300 *	US-PATENT-CLASS-356-197	c 37	N74-18123 *	US-PATENT-CLASS-356-351	c 74	N92-22034 *
US-PATENT-CLASS-354-289	c 35	N82-26628 *	US-PATENT-CLASS-356-199	c 36	N78-14380 *	US-PATENT-CLASS-356-352	c 74	N81-17888 *
US-PATENT-CLASS-354-479	c 74	N86-28732 *	US-PATENT-CLASS-356-1	c 36	N83-34304 *	US-PATENT-CLASS-356-353	c 74	N83-32577 *
US-PATENT-CLASS-354-62	c 52	N87-24874 *	US-PATENT-CLASS-356-1	c 36	N88-24958 *	US-PATENT-CLASS-356-356	c 36	N81-24422 *
US-PATENT-CLASS-354-77	c 74	N79-20856 *	US-PATENT-CLASS-356-1	c 09	N91-14356 *	US-PATENT-CLASS-356-357	c 74	N83-21949 *
US-PATENT-CLASS-355-18	c 14	N73-33361 *	US-PATENT-CLASS-356-201	c 75	N74-30156 *	US-PATENT-CLASS-356-358	c 74	N81-17888 *
US-PATENT-CLASS-356-103	c 14	N71-28994 *	US-PATENT-CLASS-356-201	c 35	N77-14411 *	US-PATENT-CLASS-356-358	c 36	N81-24422 *
US-PATENT-CLASS-356-103	c 36	N75-15028 *	US-PATENT-CLASS-356-202	c 26	N73-26751 *	US-PATENT-CLASS-356-358	c 35	N85-30282 *
US-PATENT-CLASS-356-103	c 74	N78-13874 *	US-PATENT-CLASS-356-203	c 14	N71-26788 *	US-PATENT-CLASS-356-360	c 74	N92-22034 *
US-PATENT-CLASS-356-104	c 16	N71-24074 *	US-PATENT-CLASS-356-204	c 35	N77-14411 *	US-PATENT-CLASS-356-361	c 35	N89-26202 *
US-PATENT-CLASS-356-104	c 74	N78-13874 *	US-PATENT-CLASS-356-204	c 74	N78-17867 *	US-PATENT-CLASS-356-363	c 74	N83-32577 *
US-PATENT-CLASS-356-106LR	c 36	N75-19653 *	US-PATENT-CLASS-356-207	c 45	N76-17656 *	US-PATENT-CLASS-356-363	c 74	N92-22034 *
US-PATENT-CLASS-356-106R	c 72	N74-19310 *	US-PATENT-CLASS-356-208	c 74	N78-33913 *	US-PATENT-CLASS-356-369	c 35	N80-28687 *
US-PATENT-CLASS-356-106R	c 36	N76-14447 *	US-PATENT-CLASS-356-209	c 23	N71-16341 *	US-PATENT-CLASS-356-36	c 23	N71-16365 *
US-PATENT-CLASS-356-106R	c 35	N77-10493 *	US-PATENT-CLASS-356-209	c 14	N71-28993 *	US-PATENT-CLASS-356-370	c 74	N92-29117 *
US-PATENT-CLASS-356-106R	c 47	N77-10753 *	US-PATENT-CLASS-356-209	c 14	N72-17323 *	US-PATENT-CLASS-356-375	c 74	N91-32922 *
US-PATENT-CLASS-356-106S	c 23	N73-13661 *	US-PATENT-CLASS-356-209	c 35	N76-31490 *	US-PATENT-CLASS-356-376	c 36	N88-24958 *
US-PATENT-CLASS-356-106S	c 35	N76-31490 *	US-PATENT-CLASS-356-210	c 74	N79-11865 *	US-PATENT-CLASS-356-37	c 45	N76-21742 *
US-PATENT-CLASS-356-106S	c 35	N78-18391 *	US-PATENT-CLASS-356-212	c 35	N77-31465 *	US-PATENT-CLASS-356-386	c 36	N82-16396 *
US-PATENT-CLASS-356-106S	c 35	N74-23040 *	US-PATENT-CLASS-356-213	c 39	N81-25400 *	US-PATENT-CLASS-356-389	c 33	N87-14594 *
US-PATENT-CLASS-356-106	c 14	N71-17627 *	US-PATENT-CLASS-356-216	c 74	N74-15095 *	US-PATENT-CLASS-356-394	c 33	N83-18996 *
US-PATENT-CLASS-356-106	c 14	N71-17655 *	US-PATENT-CLASS-356-216	c 35	N80-18359 *	US-PATENT-CLASS-356-399	c 74	N91-32922 *
US-PATENT-CLASS-356-106	c 14	N71-27215 *	US-PATENT-CLASS-356-216	c 39	N81-25400 *	US-PATENT-CLASS-356-4.5	c 74	N86-21348 *
US-PATENT-CLASS-356-106	c 14	N73-12446 *	US-PATENT-CLASS-356-216	c 35	N84-22931 *	US-PATENT-CLASS-356-4.5	c 74	N86-32266 *
US-PATENT-CLASS-356-106	c 35	N74-15146 *	US-PATENT-CLASS-356-222	c 03	N72-20033 *	US-PATENT-CLASS-356-402	c 74	N86-29650 *
US-PATENT-CLASS-356-107	c 16	N71-24170 *	US-PATENT-CLASS-356-222	c 47	N83-32232 *	US-PATENT-CLASS-356-404	c 35	N79-28527 *
US-PATENT-CLASS-356-108	c 26	N73-26751 *	US-PATENT-CLASS-356-234	c 39	N81-25400 *	US-PATENT-CLASS-356-406	c 52	N81-27783 *

US-PATENT-CLASS-356-407	c 43	N79-17288 *	US-PATENT-CLASS-357-30	c 44	N78-13526 *	US-PATENT-CLASS-357-81	c 37	N79-28549 *
US-PATENT-CLASS-356-407	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 44	N78-24609 *	US-PATENT-CLASS-357-81	c 33	N88-23941 *
US-PATENT-CLASS-356-409	c 36	N87-28006 *	US-PATENT-CLASS-357-30	c 44	N78-25527 *	US-PATENT-CLASS-357-81	c 33	N90-20282 *
US-PATENT-CLASS-356-414	c 74	N92-29117 *	US-PATENT-CLASS-357-30	c 44	N79-11467 *	US-PATENT-CLASS-357-82	c 37	N79-28549 *
US-PATENT-CLASS-356-416	c 43	N79-17288 *	US-PATENT-CLASS-357-30	c 44	N79-14528 *	US-PATENT-CLASS-357-82	c 76	N91-28014 *
US-PATENT-CLASS-356-416	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 44	N79-31752 *	US-PATENT-CLASS-357-83	c 37	N79-28549 *
US-PATENT-CLASS-356-419	c 74	N86-29650 *	US-PATENT-CLASS-357-30	c 44	N80-29835 *	US-PATENT-CLASS-357-90	c 35	N90-21358 *
US-PATENT-CLASS-356-432	c 74	N81-17887 *	US-PATENT-CLASS-357-30	c 44	N81-19558 *	US-PATENT-CLASS-357-91	c 76	N75-25730 *
US-PATENT-CLASS-356-432	c 25	N81-25159 *	US-PATENT-CLASS-357-30	c 44	N81-29525 *	US-PATENT-CLASS-357-91	c 33	N78-27326 *
US-PATENT-CLASS-356-432	c 38	N92-29154 *	US-PATENT-CLASS-357-30	c 44	N82-26777 *	US-PATENT-CLASS-357-91	c 44	N80-29835 *
US-PATENT-CLASS-356-434	c 35	N84-34705 *	US-PATENT-CLASS-357-30	c 44	N82-29709 *	US-PATENT-CLASS-357-91	c 33	N81-26360 *
US-PATENT-CLASS-356-437	c 25	N81-14015 *	US-PATENT-CLASS-357-30	c 44	N82-31764 *	US-PATENT-CLASS-357-91	c 44	N86-32875 *
US-PATENT-CLASS-356-43	c 74	N74-15095 *	US-PATENT-CLASS-357-30	c 44	N83-13579 *	US-PATENT-CLASS-358-101	c 37	N86-21850 *
US-PATENT-CLASS-356-43	c 75	N74-30156 *	US-PATENT-CLASS-357-30	c 44	N83-32177 *	US-PATENT-CLASS-358-103	c 18	N92-28750 *
US-PATENT-CLASS-356-43	c 36	N85-21639 *	US-PATENT-CLASS-357-30	c 35	N84-33765 *	US-PATENT-CLASS-358-104	c 09	N78-18083 *
US-PATENT-CLASS-356-43	c 36	N90-17132 *	US-PATENT-CLASS-357-30	c 33	N85-21492 *	US-PATENT-CLASS-358-104	c 74	N79-13855 *
US-PATENT-CLASS-356-446	c 74	N86-26190 *	US-PATENT-CLASS-357-30	c 44	N85-21768 *	US-PATENT-CLASS-358-104	c 36	N83-34304 *
US-PATENT-CLASS-356-45	c 36	N85-21639 *	US-PATENT-CLASS-357-30	c 44	N85-30475 *	US-PATENT-CLASS-358-105	c 39	N83-20280 *
US-PATENT-CLASS-356-4	c 14	N72-17326 *	US-PATENT-CLASS-357-30	c 33	N86-19516 *	US-PATENT-CLASS-358-105	c 74	N86-21348 *
US-PATENT-CLASS-356-4	c 07	N73-26119 *	US-PATENT-CLASS-357-30	c 76	N86-20150 *	US-PATENT-CLASS-358-105	c 17	N87-25348 *
US-PATENT-CLASS-356-4	c 36	N74-15145 *	US-PATENT-CLASS-357-30	c 44	N86-32875 *	US-PATENT-CLASS-358-105	c 54	N92-29129 *
US-PATENT-CLASS-356-4	c 35	N75-15014 *	US-PATENT-CLASS-357-30	c 76	N87-13313 *	US-PATENT-CLASS-358-106	c 39	N78-16387 *
US-PATENT-CLASS-356-4	c 36	N83-34304 *	US-PATENT-CLASS-357-30	c 33	N87-23879 *	US-PATENT-CLASS-358-107	c 35	N79-18296 *
US-PATENT-CLASS-356-4	c 36	N88-24958 *	US-PATENT-CLASS-357-30	c 33	N88-14271 *	US-PATENT-CLASS-358-107	c 36	N88-24958 *
US-PATENT-CLASS-356-51	c 06	N72-31141 *	US-PATENT-CLASS-357-30	c 33	N88-14271 *	US-PATENT-CLASS-358-109	c 32	N79-20297 *
US-PATENT-CLASS-356-51	c 35	N75-30502 *	US-PATENT-CLASS-357-30	c 76	N88-14836 *	US-PATENT-CLASS-358-109	c 33	N81-33403 *
US-PATENT-CLASS-356-51	c 35	N83-21311 *	US-PATENT-CLASS-357-30	c 35	N90-17118 *	US-PATENT-CLASS-358-109	c 43	N82-13465 *
US-PATENT-CLASS-356-51	c 35	N84-34705 *	US-PATENT-CLASS-357-30	c 35	N90-21358 *	US-PATENT-CLASS-358-109	c 36	N83-34304 *
US-PATENT-CLASS-356-51	c 36	N87-28006 *	US-PATENT-CLASS-357-30	c 33	N91-14551 *	US-PATENT-CLASS-358-109	c 32	N85-29117 *
US-PATENT-CLASS-356-5	c 07	N73-26119 *	US-PATENT-CLASS-357-30	c 35	N91-14588 *	US-PATENT-CLASS-358-109	c 35	N90-22769 *
US-PATENT-CLASS-356-5	c 36	N74-15145 *	US-PATENT-CLASS-357-30	c 33	N91-21434 *	US-PATENT-CLASS-358-111	c 52	N79-10724 *
US-PATENT-CLASS-356-5	c 36	N75-15028 *	US-PATENT-CLASS-357-30	c 74	N91-25841 *	US-PATENT-CLASS-358-113	c 35	N90-22770 *
US-PATENT-CLASS-356-5	c 32	N82-23376 *	US-PATENT-CLASS-357-30	c 44	N91-27614 *	US-PATENT-CLASS-358-125	c 74	N84-23247 *
US-PATENT-CLASS-356-5	c 74	N85-34629 *	US-PATENT-CLASS-357-32	c 35	N84-33765 *	US-PATENT-CLASS-358-125	c 74	N86-21348 *
US-PATENT-CLASS-356-5	c 74	N86-32266 *	US-PATENT-CLASS-357-32	c 33	N91-14551 *	US-PATENT-CLASS-358-12	c 74	N92-33017 *
US-PATENT-CLASS-356-5	c 32	N87-14559 *	US-PATENT-CLASS-357-34	c 74	N91-25841 *	US-PATENT-CLASS-358-133	c 32	N77-24328 *
US-PATENT-CLASS-356-5	c 35	N91-15512 *	US-PATENT-CLASS-357-35	c 33	N87-23879 *	US-PATENT-CLASS-358-133	c 32	N85-29117 *
US-PATENT-CLASS-356-5	c 74	N91-27957 *	US-PATENT-CLASS-357-40	c 36	N85-30305 *	US-PATENT-CLASS-358-133	c 17	N87-25348 *
US-PATENT-CLASS-356-71	c 66	N76-19888 *	US-PATENT-CLASS-357-41	c 33	N79-12321 *	US-PATENT-CLASS-358-133	c 32	N92-10128 *
US-PATENT-CLASS-356-72	c 14	N71-23268 *	US-PATENT-CLASS-357-42	c 76	N75-25730 *	US-PATENT-CLASS-358-135	c 32	N92-10128 *
US-PATENT-CLASS-356-72	c 33	N73-27796 *	US-PATENT-CLASS-357-45	c 33	N79-12321 *	US-PATENT-CLASS-358-138	c 32	N77-24328 *
US-PATENT-CLASS-356-72	c 38	N78-32447 *	US-PATENT-CLASS-357-45	c 44	N79-26475 *	US-PATENT-CLASS-358-138	c 17	N87-25348 *
US-PATENT-CLASS-356-72	c 74	N80-33210 *	US-PATENT-CLASS-357-46	c 36	N85-30305 *	US-PATENT-CLASS-358-142	c 74	N78-14889 *
US-PATENT-CLASS-356-72	c 35	N86-32697 *	US-PATENT-CLASS-357-46	c 74	N91-25841 *	US-PATENT-CLASS-358-160	c 60	N92-16563 *
US-PATENT-CLASS-356-73.1	c 76	N90-24150 *	US-PATENT-CLASS-357-47	c 33	N92-16197 *	US-PATENT-CLASS-358-161	c 32	N85-21427 *
US-PATENT-CLASS-356-73	c 75	N74-30156 *	US-PATENT-CLASS-357-4	c 33	N78-13320 *	US-PATENT-CLASS-358-168	c 32	N86-20647 *
US-PATENT-CLASS-356-73	c 38	N78-32447 *	US-PATENT-CLASS-357-4	c 76	N85-30922 *	US-PATENT-CLASS-358-174	c 32	N85-21427 *
US-PATENT-CLASS-356-73	c 35	N84-33766 *	US-PATENT-CLASS-357-4	c 35	N90-17118 *	US-PATENT-CLASS-358-183	c 60	N92-16563 *
US-PATENT-CLASS-356-73	c 09	N86-32447 *	US-PATENT-CLASS-357-4	c 35	N90-21358 *	US-PATENT-CLASS-358-213	c 33	N81-33403 *
US-PATENT-CLASS-356-73	c 35	N86-32697 *	US-PATENT-CLASS-357-4	c 76	N92-22041 *	US-PATENT-CLASS-358-213	c 33	N82-24416 *
US-PATENT-CLASS-356-73	c 76	N90-24150 *	US-PATENT-CLASS-357-50	c 76	N85-30922 *	US-PATENT-CLASS-358-213	c 74	N84-23247 *
US-PATENT-CLASS-356-74	c 30	N71-15990 *	US-PATENT-CLASS-357-52	c 76	N75-25730 *	US-PATENT-CLASS-358-217	c 32	N85-21427 *
US-PATENT-CLASS-356-74	c 35	N84-33766 *	US-PATENT-CLASS-357-52	c 44	N80-29835 *	US-PATENT-CLASS-358-219	c 32	N85-21427 *
US-PATENT-CLASS-356-76	c 23	N71-26206 *	US-PATENT-CLASS-357-52	c 76	N87-13313 *	US-PATENT-CLASS-358-222	c 74	N86-28732 *
US-PATENT-CLASS-356-76	c 14	N71-29041 *	US-PATENT-CLASS-357-54	c 76	N75-25730 *	US-PATENT-CLASS-358-225	c 74	N78-17865 *
US-PATENT-CLASS-356-83	c 35	N75-19613 *	US-PATENT-CLASS-357-55	c 33	N79-12321 *	US-PATENT-CLASS-358-22	c 60	N92-16563 *
US-PATENT-CLASS-356-85	c 37	N74-18123 *	US-PATENT-CLASS-357-55	c 33	N81-26360 *	US-PATENT-CLASS-358-36	c 32	N75-21485 *
US-PATENT-CLASS-356-85	c 75	N74-30156 *	US-PATENT-CLASS-357-55	c 33	N90-20282 *	US-PATENT-CLASS-358-41	c 74	N78-17865 *
US-PATENT-CLASS-356-87	c 75	N74-30156 *	US-PATENT-CLASS-357-55	c 33	N92-16197 *	US-PATENT-CLASS-358-44	c 74	N77-18893 *
US-PATENT-CLASS-356-96	c 35	N75-19613 *	US-PATENT-CLASS-357-56	c 33	N88-14271 *	US-PATENT-CLASS-358-55	c 74	N78-17865 *
US-PATENT-CLASS-356-97	c 35	N77-14411 *	US-PATENT-CLASS-357-58	c 33	N86-19516 *	US-PATENT-CLASS-358-81	c 32	N79-20297 *
US-PATENT-CLASS-357-12	c 33	N85-21492 *	US-PATENT-CLASS-357-58	c 35	N90-21358 *	US-PATENT-CLASS-358-88	c 74	N86-21348 *
US-PATENT-CLASS-357-13	c 35	N90-17118 *	US-PATENT-CLASS-357-58	c 33	N91-14551 *	US-PATENT-CLASS-358-88	c 32	N89-28676 *
US-PATENT-CLASS-357-15	c 44	N78-13526 *	US-PATENT-CLASS-357-59	c 44	N76-28635 *	US-PATENT-CLASS-358-88	c 74	N92-16809 *
US-PATENT-CLASS-357-15	c 44	N79-11467 *	US-PATENT-CLASS-357-59	c 44	N78-24609 *	US-PATENT-CLASS-358-91	c 32	N89-28676 *
US-PATENT-CLASS-357-15	c 44	N81-29525 *	US-PATENT-CLASS-357-59	c 44	N81-19558 *	US-PATENT-CLASS-358-91	c 74	N92-16809 *
US-PATENT-CLASS-357-15	c 76	N86-20150 *	US-PATENT-CLASS-357-59	c 33	N86-19516 *	US-PATENT-CLASS-358-92	c 32	N89-28676 *
US-PATENT-CLASS-357-15	c 33	N91-14551 *	US-PATENT-CLASS-357-5	c 33	N75-31332 *	US-PATENT-CLASS-358-92	c 74	N92-16809 *
US-PATENT-CLASS-357-15	c 33	N91-21434 *	US-PATENT-CLASS-357-5	c 33	N78-13320 *	US-PATENT-CLASS-358-93	c 35	N90-22770 *
US-PATENT-CLASS-357-15	c 33	N92-16197 *	US-PATENT-CLASS-357-5	c 76	N92-22040 *	US-PATENT-CLASS-358-96	c 52	N79-10724 *
US-PATENT-CLASS-357-16	c 44	N78-13526 *	US-PATENT-CLASS-357-5	c 76	N92-22041 *	US-PATENT-CLASS-359-849	c 74	N92-29122 *
US-PATENT-CLASS-357-16	c 44	N79-11467 *	US-PATENT-CLASS-357-60	c 33	N81-26360 *	US-PATENT-CLASS-359-107	c 60	N92-33057 *
US-PATENT-CLASS-357-16	c 74	N91-25841 *	US-PATENT-CLASS-357-61	c 33	N88-14271 *	US-PATENT-CLASS-359-108	c 60	N92-33057 *
US-PATENT-CLASS-357-17	c 36	N85-30305 *	US-PATENT-CLASS-357-61	c 35	N90-17118 *	US-PATENT-CLASS-359-11	c 74	N92-16808 *
US-PATENT-CLASS-357-17	c 74	N91-25841 *	US-PATENT-CLASS-357-63	c 33	N76-31409 *	US-PATENT-CLASS-359-230	c 37	N92-29151 *
US-PATENT-CLASS-357-22	c 33	N79-11314 *	US-PATENT-CLASS-357-63	c 44	N81-19558 *	US-PATENT-CLASS-359-236	c 37	N92-29151 *
US-PATENT-CLASS-357-22	c 33	N79-12321 *	US-PATENT-CLASS-357-63	c 44	N82-26777 *	US-PATENT-CLASS-359-240	c 74	N92-16808 *
US-PATENT-CLASS-357-22	c 33	N90-20282 *	US-PATENT-CLASS-357-65	c 44	N78-25527 *	US-PATENT-CLASS-359-241	c 74	N92-16808 *
US-PATENT-CLASS-357-23.12	c 76	N87-13313 *	US-PATENT-CLASS-357-65	c 44	N79-11467 *	US-PATENT-CLASS-359-241	c 74	N92-33028 *
US-PATENT-CLASS-357-23.1	c 76	N87-13313 *	US-PATENT-CLASS-357-65	c 44	N79-31752 *	US-PATENT-CLASS-359-246	c 74	N92-29117 *
US-PATENT-CLASS-357-23.6	c 33	N86-19516 *	US-PATENT-CLASS-357-65	c 33	N88-14271 *	US-PATENT-CLASS-359-247	c 74	N92-29117 *
US-PATENT-CLASS-357-231	c 33	N88-14271 *	US-PATENT-CLASS-357-67S	c 33	N91-21434 *	US-PATENT-CLASS-359-281	c 74	N92-29117 *
US-PATENT-CLASS-357-23	c 76	N75-25730 *	US-PATENT-CLASS-357-67	c 44	N78-25527 *	US-PATENT-CLASS-359-362	c 74	N92-16810 *
US-PATENT-CLASS-357-23	c 33	N79-12321 *	US-PATENT-CLASS-357-67	c 44	N79-11467 *	US-PATENT-CLASS-359-498	c 36	N92-16290 *
US-PATENT-CLASS-357-23	c 33	N81-26360 *	US-PATENT-CLASS-357-67	c 44	N79-31752 *	US-PATENT-CLASS-359-557	c 74	N92-16811 *
US-PATENT-CLASS-357-24	c 33	N75-31331 *	US-PATENT-CLASS-357-68	c 33	N90-20282 *	US-PATENT-CLASS-359-559	c 74	N92-33022 *
US-PATENT-CLASS-357-24	c 33	N88-14271 *	US-PATENT-CLASS-357-68	c 33	N92-16197 *	US-PATENT-CLASS-359-559	c 60	N92-33057 *
US-PATENT-CLASS-357-27	c 35	N91-14588 *	US-PATENT-CLASS-357-69	c 33	N92-16197 *	US-PATENT-CLASS-359-561	c 74	N92-33022 *
US-PATENT-CLASS-357-28	c 35	N92-33614 *	US-PATENT-CLASS-357-71S	c 33	N91-21434 *	US-PATENT-CLASS-359-561	c 60	N92-33057 *
US-PATENT-CLASS-357-29	c 76	N75-25730 *	US-PATENT-CLASS-357-72	c 33	N88-23941 *	US-PATENT-CLASS-359-572	c 74	N92-16810 *
US-PATENT-CLASS-357-29	c 35	N84-33765 *	US-PATENT-CLASS-357-73	c 33	N78-13320 *	US-PATENT-CLASS-359-744	c 74	N92-16810 *
US-PATENT-CLASS-357-29	c 76	N87-13313 *	US-PATENT-CLASS-357-74	c 37	N79-28549 *	US-PATENT-CLASS-359-7	c 74	N92-33022 *
US-PATENT-CLASS-357-29	c 35	N90-21358 *	US-PATENT-CLASS-357-74	c 33	N88-23941 *	US-PATENT-CLASS-359-813	c 74	N92-16811 *
US-PATENT-CLASS-357-29	c 33	N91-14551 *	US-PATENT-CLASS-357-76	c 33	N90-20282 *	US-PATENT-CLASS-359-819	c 74	N92-16811 *
US-PATENT-CLASS-357-29	c 33	N92-16196 *	US-PATENT-CLASS-357-79	c 37	N79-28549 *	US-PATENT-CLASS-36-119	c 54	N78-17675 *
US-PATENT-CLASS-357-30	c 44	N76-28635 *	US-PATENT-CLASS-357-7	c 33	N75-31331 *	US-PATENT-CLASS-36-92	c 54	N78-17675 *

US-PATENT-CLASS-360-101	c 35	N76-16391 *	US-PATENT-CLASS-364-281.8	c 62	N91-25693 *	US-PATENT-CLASS-364-934	c 35	N90-23713 *
US-PATENT-CLASS-360-10	c 35	N76-16391 *	US-PATENT-CLASS-364-281	c 62	N91-14769 *	US-PATENT-CLASS-364-940.67	c 60	N90-21527 *
US-PATENT-CLASS-360-25	c 35	N77-17426 *	US-PATENT-CLASS-364-281	c 62	N91-25693 *	US-PATENT-CLASS-364-942.51	c 60	N90-21527 *
US-PATENT-CLASS-360-26	c 33	N76-18353 *	US-PATENT-CLASS-364-300	c 52	N79-12694 *	US-PATENT-CLASS-364-944	c 60	N90-21527 *
US-PATENT-CLASS-360-31	c 35	N77-17426 *	US-PATENT-CLASS-364-300	c 62	N91-14769 *	US-PATENT-CLASS-364-975.5	c 60	N90-21527 *
US-PATENT-CLASS-360-35	c 35	N76-16391 *	US-PATENT-CLASS-364-400	c 33	N85-29142 *	US-PATENT-CLASS-365-120	c 33	N81-29342 *
US-PATENT-CLASS-360-48	c 60	N92-29132 *	US-PATENT-CLASS-364-402	c 62	N92-15620 *	US-PATENT-CLASS-365-156	c 60	N91-31810 *
US-PATENT-CLASS-360-51	c 33	N76-18353 *	US-PATENT-CLASS-364-413	c 39	N83-20280 *	US-PATENT-CLASS-365-200	c 60	N91-31810 *
US-PATENT-CLASS-360-98.01	c 60	N92-29132 *	US-PATENT-CLASS-364-415	c 52	N79-12694 *	US-PATENT-CLASS-365-49	c 60	N92-33057 *
US-PATENT-CLASS-360-9	c 35	N76-16391 *	US-PATENT-CLASS-364-415	c 35	N84-12445 *	US-PATENT-CLASS-365-768	c 32	N86-27513 *
US-PATENT-CLASS-361-100	c 33	N83-34190 *	US-PATENT-CLASS-364-417	c 52	N79-10724 *	US-PATENT-CLASS-366-106	c 71	N84-28568 *
US-PATENT-CLASS-361-141	c 33	N82-11357 *	US-PATENT-CLASS-364-424.01	c 54	N92-29129 *	US-PATENT-CLASS-366-114	c 71	N83-35781 *
US-PATENT-CLASS-361-148	c 70	N92-29130 *	US-PATENT-CLASS-364-427	c 09	N90-20096 *	US-PATENT-CLASS-367-100	c 32	N82-18443 *
US-PATENT-CLASS-361-149	c 70	N92-29130 *	US-PATENT-CLASS-364-427	c 04	N91-31120 *	US-PATENT-CLASS-367-102	c 32	N82-18443 *
US-PATENT-CLASS-361-170	c 33	N79-28415 *	US-PATENT-CLASS-364-428	c 04	N91-31120 *	US-PATENT-CLASS-367-156	c 33	N92-15331 *
US-PATENT-CLASS-361-218	c 03	N88-14083 *	US-PATENT-CLASS-364-431	c 07	N81-19115 *	US-PATENT-CLASS-367-181	c 33	N82-26572 *
US-PATENT-CLASS-361-222	c 03	N88-14083 *	US-PATENT-CLASS-364-433	c 06	N86-27280 *	US-PATENT-CLASS-367-189	c 35	N84-22933 *
US-PATENT-CLASS-361-226	c 28	N82-18401 *	US-PATENT-CLASS-364-433	c 09	N91-14356 *	US-PATENT-CLASS-367-191	c 71	N88-24241 *
US-PATENT-CLASS-361-230	c 28	N82-18401 *	US-PATENT-CLASS-364-434	c 08	N79-23097 *	US-PATENT-CLASS-367-26	c 39	N80-10507 *
US-PATENT-CLASS-361-267	c 70	N92-29130 *	US-PATENT-CLASS-364-434	c 08	N81-24106 *	US-PATENT-CLASS-367-27	c 31	N80-32584 *
US-PATENT-CLASS-361-283	c 33	N82-26572 *	US-PATENT-CLASS-364-435	c 06	N86-27280 *	US-PATENT-CLASS-367-36	c 31	N80-32584 *
US-PATENT-CLASS-361-334	c 35	N81-26431 *	US-PATENT-CLASS-364-443	c 47	N92-29148 *	US-PATENT-CLASS-367-57	c 31	N80-32584 *
US-PATENT-CLASS-361-383	c 31	N90-21215 *	US-PATENT-CLASS-364-452	c 04	N84-27713 *	US-PATENT-CLASS-367-88	c 32	N82-18443 *
US-PATENT-CLASS-361-384	c 31	N90-21215 *	US-PATENT-CLASS-364-453	c 18	N91-29152 *	US-PATENT-CLASS-367-88	c 32	N83-31918 *
US-PATENT-CLASS-361-385	c 31	N90-21215 *	US-PATENT-CLASS-364-453	c 33	N85-29142 *	US-PATENT-CLASS-367-88	c 43	N86-19711 *
US-PATENT-CLASS-361-395	c 32	N78-24391 *	US-PATENT-CLASS-364-458	c 32	N79-14267 *	US-PATENT-CLASS-367-908	c 35	N89-14407 *
US-PATENT-CLASS-361-56	c 33	N81-27397 *	US-PATENT-CLASS-364-459	c 18	N92-28750 *	US-PATENT-CLASS-367-95	c 32	N82-23376 *
US-PATENT-CLASS-361-65	c 33	N90-20320 *	US-PATENT-CLASS-364-478	c 37	N91-21544 *	US-PATENT-CLASS-367-99	c 32	N87-14559 *
US-PATENT-CLASS-361-79	c 33	N90-20320 *	US-PATENT-CLASS-364-481	c 33	N90-19492 *	US-PATENT-CLASS-368-184	c 33	N83-36357 *
US-PATENT-CLASS-361-91	c 33	N81-27397 *	US-PATENT-CLASS-364-482	c 33	N90-19492 *	US-PATENT-CLASS-368-200	c 33	N83-36357 *
US-PATENT-CLASS-362-11	c 74	N81-17886 *	US-PATENT-CLASS-364-484	c 33	N89-14385 *	US-PATENT-CLASS-368-201	c 33	N83-36357 *
US-PATENT-CLASS-362-241	c 74	N81-17886 *	US-PATENT-CLASS-364-487	c 17	N91-14371 *	US-PATENT-CLASS-368-47	c 33	N81-14221 *
US-PATENT-CLASS-362-269	c 17	N78-17140 *	US-PATENT-CLASS-364-500	c 25	N88-29002 *	US-PATENT-CLASS-369-32	c 60	N92-29132 *
US-PATENT-CLASS-363-100	c 33	N85-29147 *	US-PATENT-CLASS-364-510	c 34	N81-26402 *	US-PATENT-CLASS-369-44.26	c 74	N92-29133 *
US-PATENT-CLASS-363-101	c 33	N78-32341 *	US-PATENT-CLASS-364-513	c 61	N91-14741 *	US-PATENT-CLASS-369-95	c 60	N92-29132 *
US-PATENT-CLASS-363-101	c 33	N81-19392 *	US-PATENT-CLASS-364-513	c 37	N91-21542 *	US-PATENT-CLASS-37N	c 27	N81-15104 *
US-PATENT-CLASS-363-132	c 33	N82-18494 *	US-PATENT-CLASS-364-513	c 37	N91-21544 *	US-PATENT-CLASS-370-100	c 60	N82-16747 *
US-PATENT-CLASS-363-134	c 33	N79-24257 *	US-PATENT-CLASS-364-513	c 33	N91-31528 *	US-PATENT-CLASS-370-16	c 62	N90-19776 *
US-PATENT-CLASS-363-147	c 44	N81-12542 *	US-PATENT-CLASS-364-513	c 63	N91-31885 *	US-PATENT-CLASS-370-58	c 60	N81-27814 *
US-PATENT-CLASS-363-16	c 33	N78-32341 *	US-PATENT-CLASS-364-513	c 62	N91-32852 *	US-PATENT-CLASS-370-67	c 33	N82-29538 *
US-PATENT-CLASS-363-17	c 33	N82-18494 *	US-PATENT-CLASS-364-514	c 33	N81-33405 *	US-PATENT-CLASS-370-85.4	c 62	N91-14772 *
US-PATENT-CLASS-363-19	c 33	N85-29147 *	US-PATENT-CLASS-364-522	c 39	N83-20280 *	US-PATENT-CLASS-370-85.6	c 62	N91-14772 *
US-PATENT-CLASS-363-21	c 33	N81-19392 *	US-PATENT-CLASS-364-550	c 17	N91-14371 *	US-PATENT-CLASS-370-85.9	c 62	N91-14772 *
US-PATENT-CLASS-363-21	c 33	N81-19393 *	US-PATENT-CLASS-364-556	c 36	N85-29264 *	US-PATENT-CLASS-370-85	c 33	N81-14221 *
US-PATENT-CLASS-363-22	c 33	N84-33663 *	US-PATENT-CLASS-364-557	c 35	N84-14491 *	US-PATENT-CLASS-370-94.3	c 62	N91-14772 *
US-PATENT-CLASS-363-23	c 33	N85-29147 *	US-PATENT-CLASS-364-557	c 25	N88-29002 *	US-PATENT-CLASS-371-041	c 17	N90-21061 *
US-PATENT-CLASS-363-24	c 33	N81-33404 *	US-PATENT-CLASS-364-558	c 35	N84-14491 *	US-PATENT-CLASS-371-043	c 17	N90-21061 *
US-PATENT-CLASS-363-25	c 33	N84-16453 *	US-PATENT-CLASS-364-558	c 07	N84-22559 *	US-PATENT-CLASS-371-11.3	c 60	N90-21527 *
US-PATENT-CLASS-363-27	c 44	N81-12542 *	US-PATENT-CLASS-364-559	c 39	N83-20280 *	US-PATENT-CLASS-371-20	c 33	N81-26359 *
US-PATENT-CLASS-363-36	c 33	N81-19393 *	US-PATENT-CLASS-364-560	c 43	N79-26439 *	US-PATENT-CLASS-371-25	c 33	N81-26359 *
US-PATENT-CLASS-363-40	c 33	N81-19393 *	US-PATENT-CLASS-364-561	c 36	N88-24958 *	US-PATENT-CLASS-371-37.1	c 33	N92-33011 *
US-PATENT-CLASS-363-47	c 33	N81-19393 *	US-PATENT-CLASS-364-566	c 18	N81-29152 *	US-PATENT-CLASS-371-37.4	c 17	N90-21061 *
US-PATENT-CLASS-363-49	c 33	N84-33663 *	US-PATENT-CLASS-364-571	c 34	N81-26402 *	US-PATENT-CLASS-371-37	c 60	N87-21591 *
US-PATENT-CLASS-363-53	c 33	N77-30365 *	US-PATENT-CLASS-364-571	c 35	N84-14491 *	US-PATENT-CLASS-371-38.1	c 17	N90-21061 *
US-PATENT-CLASS-363-54	c 33	N83-34190 *	US-PATENT-CLASS-364-571	c 33	N85-34333 *	US-PATENT-CLASS-371-40.1	c 60	N91-31810 *
US-PATENT-CLASS-363-56	c 33	N79-24254 *	US-PATENT-CLASS-364-571	c 25	N88-29002 *	US-PATENT-CLASS-371-40	c 60	N87-21591 *
US-PATENT-CLASS-363-56	c 33	N81-14220 *	US-PATENT-CLASS-364-578	c 33	N85-34333 *	US-PATENT-CLASS-371-43	c 33	N87-25531 *
US-PATENT-CLASS-363-56	c 33	N81-33404 *	US-PATENT-CLASS-364-578	c 35	N90-23713 *	US-PATENT-CLASS-371-43	c 32	N91-14523 *
US-PATENT-CLASS-363-57	c 33	N78-10377 *	US-PATENT-CLASS-364-578	c 61	N91-14741 *	US-PATENT-CLASS-371-63	c 17	N87-16863 *
US-PATENT-CLASS-363-60	c 33	N78-32341 *	US-PATENT-CLASS-364-578	c 32	N91-25317 *	US-PATENT-CLASS-371-68	c 60	N82-29013 *
US-PATENT-CLASS-363-60	c 44	N81-12542 *	US-PATENT-CLASS-364-604	c 32	N79-14267 *	US-PATENT-CLASS-371-6	c 32	N83-13323 *
US-PATENT-CLASS-363-61	c 33	N82-18494 *	US-PATENT-CLASS-364-713	c 32	N79-20297 *	US-PATENT-CLASS-371-8	c 62	N90-19776 *
US-PATENT-CLASS-363-61	c 33	N85-29147 *	US-PATENT-CLASS-364-713	c 74	N91-26918 *	US-PATENT-CLASS-372-100	c 36	N84-14509 *
US-PATENT-CLASS-363-65	c 33	N84-16453 *	US-PATENT-CLASS-364-717	c 32	N82-31583 *	US-PATENT-CLASS-372-103	c 36	N84-28065 *
US-PATENT-CLASS-363-67	c 33	N84-16453 *	US-PATENT-CLASS-364-717	c 33	N90-23636 *	US-PATENT-CLASS-372-103	c 36	N87-23960 *
US-PATENT-CLASS-363-70	c 33	N77-30365 *	US-PATENT-CLASS-364-723	c 60	N85-33701 *	US-PATENT-CLASS-372-105	c 36	N92-16290 *
US-PATENT-CLASS-363-71	c 33	N79-24254 *	US-PATENT-CLASS-364-724.01	c 33	N89-28713 *	US-PATENT-CLASS-372-108	c 36	N84-14509 *
US-PATENT-CLASS-363-71	c 33	N79-24257 *	US-PATENT-CLASS-364-724.05	c 33	N89-28713 *	US-PATENT-CLASS-372-18	c 36	N87-23960 *
US-PATENT-CLASS-363-71	c 33	N81-14220 *	US-PATENT-CLASS-364-728	c 32	N79-14267 *	US-PATENT-CLASS-372-19	c 36	N91-17360 *
US-PATENT-CLASS-363-71	c 33	N84-16453 *	US-PATENT-CLASS-364-728	c 60	N86-21154 *	US-PATENT-CLASS-372-20	c 36	N84-22943 *
US-PATENT-CLASS-363-71	c 33	N85-29147 *	US-PATENT-CLASS-364-728	c 60	N88-24169 *	US-PATENT-CLASS-372-20	c 36	N87-25567 *
US-PATENT-CLASS-363-78	c 33	N81-14220 *	US-PATENT-CLASS-364-735	c 33	N89-28713 *	US-PATENT-CLASS-372-25	c 33	N83-34189 *
US-PATENT-CLASS-363-87	c 33	N83-10345 *	US-PATENT-CLASS-364-746.1	c 33	N90-23636 *	US-PATENT-CLASS-372-25	c 36	N92-31788 *
US-PATENT-CLASS-363-89	c 33	N78-10377 *	US-PATENT-CLASS-364-754	c 33	N89-28713 *	US-PATENT-CLASS-372-28	c 36	N84-22943 *
US-PATENT-CLASS-363-95	c 33	N79-24257 *	US-PATENT-CLASS-364-757	c 60	N88-24169 *	US-PATENT-CLASS-372-30	c 36	N92-31788 *
US-PATENT-CLASS-363-97	c 33	N79-24254 *	US-PATENT-CLASS-364-807	c 62	N91-32852 *	US-PATENT-CLASS-372-32	c 36	N84-22943 *
US-PATENT-CLASS-363-97	c 09	N88-28939 *	US-PATENT-CLASS-364-807	c 32	N92-22033 *	US-PATENT-CLASS-372-32	c 33	N85-34333 *
US-PATENT-CLASS-364-106	c 07	N81-19115 *	US-PATENT-CLASS-364-822	c 32	N83-18975 *	US-PATENT-CLASS-372-38	c 36	N85-30305 *
US-PATENT-CLASS-364-120	c 52	N79-12694 *	US-PATENT-CLASS-364-822	c 74	N86-21348 *	US-PATENT-CLASS-372-39	c 36	N91-17360 *
US-PATENT-CLASS-364-131	c 60	N89-26400 *	US-PATENT-CLASS-364-825	c 33	N91-26918 *	US-PATENT-CLASS-372-41	c 36	N91-15528 *
US-PATENT-CLASS-364-191	c 63	N92-33019 *	US-PATENT-CLASS-364-837	c 33	N82-24417 *	US-PATENT-CLASS-372-43	c 36	N87-23960 *
US-PATENT-CLASS-364-200	c 62	N81-24779 *	US-PATENT-CLASS-364-841	c 74	N91-26918 *	US-PATENT-CLASS-372-46	c 36	N85-30305 *
US-PATENT-CLASS-364-200	c 60	N81-27814 *	US-PATENT-CLASS-364-841	c 74	N91-26918 *	US-PATENT-CLASS-372-4	c 36	N84-28065 *
US-PATENT-CLASS-364-200	c 60	N83-25378 *	US-PATENT-CLASS-364-853	c 60	N85-33701 *	US-PATENT-CLASS-372-4	c 36	N87-25567 *
US-PATENT-CLASS-364-200	c 60	N83-32342 *	US-PATENT-CLASS-364-861	c 32	N83-18975 *	US-PATENT-CLASS-372-50	c 36	N85-30305 *
US-PATENT-CLASS-364-200	c 32	N85-21428 *	US-PATENT-CLASS-364-900	c 52	N79-12694 *	US-PATENT-CLASS-372-55	c 36	N84-16542 *
US-PATENT-CLASS-364-200	c 60	N85-21992 *	US-PATENT-CLASS-364-900	c 60	N79-20751 *	US-PATENT-CLASS-372-56	c 36	N82-28616 *
US-PATENT-CLASS-364-200	c 60	N88-29310 *	US-PATENT-CLASS-364-900	c 60	N81-27814 *	US-PATENT-CLASS-372-56	c 36	N83-10417 *
US-PATENT-CLASS-364-200	c 62	N91-25693 *	US-PATENT-CLASS-364-900	c 60	N83-32342 *	US-PATENT-CLASS-372-58	c 36	N82-28616 *
US-PATENT-CLASS-364-228.3	c 62	N91-14769 *	US-PATENT-CLASS-364-900	c 60	N84-28491 *	US-PATENT-CLASS-372-59	c 36	N83-10417 *
US-PATENT-CLASS-364-229.4	c 60	N90-21527 *	US-PATENT-CLASS-364-900	c 60	N84-28492 *	US-PATENT-CLASS-372-59	c 25	N90-20154 *
US-PATENT-CLASS-364-231.9	c 62	N91-14769 *	US-PATENT-CLASS-364-900	c 33	N89-14384 *	US-PATENT-CLASS-372-59	c 25	N91-21270 *
US-PATENT-CLASS-364-267.9	c 60	N90-21527 *	US-PATENT-CLASS-364-900	c 35	N90-23713 *	US-PATENT-CLASS-372-60	c 36	N83-10417 *
US-PATENT-CLASS-364-280	c 62	N91-14769 *	US-PATENT-CLASS-364-924.4	c 35	N90-23713 *	US-PATENT-CLASS-372-61	c 74	N87-14971 *
US-PATENT-CLASS-364-281.3	c 62	N91-25693 *	US-PATENT-CLASS-364-925.1	c 35	N90-23713 *	US-PATENT-CLASS-372-66	c 36	N91-17360 *
US-PATENT-CLASS-364-281.6	c 62	N91-25693 *	US-PATENT-CLASS-364-933.8	c 35	N90-23713 *	US-PATENT-CLASS-372-68	c 36	N87-23961 *

US-PATENT-CLASS-372-69	c 36	N87-25567 *	US-PATENT-CLASS-375-81	c 32	N84-27952 *	US-PATENT-CLASS-403-131	c 37	N91-21543 *
US-PATENT-CLASS-372-70	c 36	N91-17360 #	US-PATENT-CLASS-375-85	c 32	N91-25316 *	US-PATENT-CLASS-403-13	c 37	N92-29140 *
US-PATENT-CLASS-372-71	c 36	N84-28065 *	US-PATENT-CLASS-375-85	c 32	N91-27439 *	US-PATENT-CLASS-403-143	c 18	N85-29991 *
US-PATENT-CLASS-372-71	c 36	N91-15528 *	US-PATENT-CLASS-375-86	c 32	N91-25318 *	US-PATENT-CLASS-403-146	c 18	N87-14373 *
US-PATENT-CLASS-372-74	c 35	N84-12444 *	US-PATENT-CLASS-375-88	c 17	N87-16863 *	US-PATENT-CLASS-403-146	c 37	N91-15544 *
US-PATENT-CLASS-372-75	c 36	N91-15528 *	US-PATENT-CLASS-375-94	c 04	N91-14321 *	US-PATENT-CLASS-403-147	c 37	N91-15544 *
US-PATENT-CLASS-372-79	c 36	N84-16542 *	US-PATENT-CLASS-375-94	c 04	N91-14321 *	US-PATENT-CLASS-403-156	c 37	N91-15544 *
US-PATENT-CLASS-372-79	c 36	N86-29204 *	US-PATENT-CLASS-375-94	c 32	N92-21712 *	US-PATENT-CLASS-403-15	c 37	N85-30334 *
US-PATENT-CLASS-372-81	c 36	N87-23961 *	US-PATENT-CLASS-375-97	c 32	N91-25316 *	US-PATENT-CLASS-403-163	c 18	N87-14373 *
US-PATENT-CLASS-372-82	c 36	N82-28616 *	US-PATENT-CLASS-375-99	c 35	N81-19427 *	US-PATENT-CLASS-403-164	c 54	N86-29507 #
US-PATENT-CLASS-372-93	c 36	N84-14509 *	US-PATENT-CLASS-376-127	c 72	N87-21661 *	US-PATENT-CLASS-403-16	c 37	N85-30334 *
US-PATENT-CLASS-372-93	c 36	N84-28065 *	US-PATENT-CLASS-376-159	c 25	N85-21279 *	US-PATENT-CLASS-403-171	c 31	N81-25258 *
US-PATENT-CLASS-372-94	c 36	N84-14509 *	US-PATENT-CLASS-377-111	c 60	N90-21525 *	US-PATENT-CLASS-403-171	c 31	N86-19479 *
US-PATENT-CLASS-372-95	c 36	N84-28065 *	US-PATENT-CLASS-377-114	c 60	N90-21525 *	US-PATENT-CLASS-403-171	c 37	N88-29180 *
US-PATENT-CLASS-372-98	c 36	N84-14509 *	US-PATENT-CLASS-377-116	c 60	N90-21525 *	US-PATENT-CLASS-403-171	c 37	N91-14614 *
US-PATENT-CLASS-372-99	c 36	N87-25567 *	US-PATENT-CLASS-377-123	c 60	N90-21525 *	US-PATENT-CLASS-403-171	c 18	N91-21221 *
US-PATENT-CLASS-373-10	c 35	N87-23944 *	US-PATENT-CLASS-377-126	c 60	N90-21525 *	US-PATENT-CLASS-403-176	c 18	N91-21221 *
US-PATENT-CLASS-373-15	c 35	N87-23944 *	US-PATENT-CLASS-377-39	c 33	N89-14385 *	US-PATENT-CLASS-403-179	c 27	N76-14264 *
US-PATENT-CLASS-374-112	c 47	N92-29148 *	US-PATENT-CLASS-377-69	c 60	N90-21525 *	US-PATENT-CLASS-403-217	c 37	N82-32732 *
US-PATENT-CLASS-374-115	c 35	N86-19580 *	US-PATENT-CLASS-377-79	c 60	N90-21525 *	US-PATENT-CLASS-403-217	c 37	N88-29180 *
US-PATENT-CLASS-374-117	c 52	N85-30618 *	US-PATENT-CLASS-378-104	c 33	N85-29147 *	US-PATENT-CLASS-403-24	c 37	N92-29140 *
US-PATENT-CLASS-374-120	c 35	N86-19580 *	US-PATENT-CLASS-378-112	c 33	N85-29147 *	US-PATENT-CLASS-403-252	c 18	N91-21221 *
US-PATENT-CLASS-374-122	c 06	N83-10040 *	US-PATENT-CLASS-378-112	c 35	N92-29135 *	US-PATENT-CLASS-403-273	c 37	N77-23482 *
US-PATENT-CLASS-374-122	c 43	N85-21723 *	US-PATENT-CLASS-378-210	c 89	N92-33012 #	US-PATENT-CLASS-403-282	c 26	N83-10170 *
US-PATENT-CLASS-374-122	c 32	N87-21206 *	US-PATENT-CLASS-378-2	c 34	N83-19015 *	US-PATENT-CLASS-403-28	c 27	N76-14264 *
US-PATENT-CLASS-374-123	c 06	N83-10040 *	US-PATENT-CLASS-378-2	c 74	N84-11920 *	US-PATENT-CLASS-403-28	c 37	N85-29285 *
US-PATENT-CLASS-374-124	c 36	N90-17132 *	US-PATENT-CLASS-378-43	c 34	N83-19015 *	US-PATENT-CLASS-403-28	c 37	N92-29120 *
US-PATENT-CLASS-374-124	c 35	N92-21710 *	US-PATENT-CLASS-378-43	c 74	N86-20124 *	US-PATENT-CLASS-403-291	c 37	N91-17387 *
US-PATENT-CLASS-374-126	c 36	N90-17132 *	US-PATENT-CLASS-378-43	c 35	N92-29135 *	US-PATENT-CLASS-403-30	c 18	N89-28554 *
US-PATENT-CLASS-374-130	c 36	N90-17132 *	US-PATENT-CLASS-378-43	c 89	N92-33012 #	US-PATENT-CLASS-403-312	c 37	N86-27630 *
US-PATENT-CLASS-374-135	c 35	N92-21710 *	US-PATENT-CLASS-378-51	c 38	N90-23756 *	US-PATENT-CLASS-403-315	c 37	N82-24494 *
US-PATENT-CLASS-374-137	c 36	N85-21639 *	US-PATENT-CLASS-378-58	c 74	N86-20126 *	US-PATENT-CLASS-403-317	c 37	N82-32732 *
US-PATENT-CLASS-374-160	c 52	N85-30618 *	US-PATENT-CLASS-378-58	c 38	N90-23756 *	US-PATENT-CLASS-403-317	c 37	N85-21649 *
US-PATENT-CLASS-374-162R	c 74	N82-30071 *	US-PATENT-CLASS-378-59	c 74	N86-20126 *	US-PATENT-CLASS-403-317	c 37	N91-14610 *
US-PATENT-CLASS-374-162	c 35	N90-22770 *	US-PATENT-CLASS-378-85	c 74	N86-20124 *	US-PATENT-CLASS-403-322	c 18	N84-22605 *
US-PATENT-CLASS-374-163	c 35	N86-19580 *	US-PATENT-CLASS-380-25	c 60	N90-25583 *	US-PATENT-CLASS-403-322	c 37	N85-30334 *
US-PATENT-CLASS-374-175	c 33	N92-33021 *	US-PATENT-CLASS-380-45	c 60	N90-25583 *	US-PATENT-CLASS-403-322	c 37	N85-30336 *
US-PATENT-CLASS-374-178	c 35	N92-33614 *	US-PATENT-CLASS-380-49	c 60	N90-25583 *	US-PATENT-CLASS-403-322	c 37	N90-17154 *
US-PATENT-CLASS-374-17	c 35	N83-29650 *	US-PATENT-CLASS-381-183	c 54	N89-29953 *	US-PATENT-CLASS-403-322	c 37	N91-14614 *
US-PATENT-CLASS-374-180	c 35	N91-31608 *	US-PATENT-CLASS-381-187	c 54	N89-29953 *	US-PATENT-CLASS-403-325	c 37	N90-17154 *
US-PATENT-CLASS-374-183	c 33	N86-32624 *	US-PATENT-CLASS-381-26	c 35	N91-27522 *	US-PATENT-CLASS-403-327	c 37	N91-14610 *
US-PATENT-CLASS-374-185	c 35	N92-33614 *	US-PATENT-CLASS-381-68.1	c 35	N91-27522 *	US-PATENT-CLASS-403-327	c 37	N91-14614 *
US-PATENT-CLASS-374-1	c 35	N84-28019 *	US-PATENT-CLASS-381-71	c 71	N91-27913 *	US-PATENT-CLASS-403-328	c 18	N86-20469 *
US-PATENT-CLASS-374-208	c 37	N85-21651 *	US-PATENT-CLASS-381-92	c 35	N91-27522 *	US-PATENT-CLASS-403-328	c 37	N90-17154 *
US-PATENT-CLASS-374-208	c 35	N91-31608 *	US-PATENT-CLASS-381-94	c 71	N91-27913 *	US-PATENT-CLASS-403-328	c 31	N92-16161 *
US-PATENT-CLASS-374-210	c 37	N85-21651 *	US-PATENT-CLASS-382-1	c 54	N92-29129 *	US-PATENT-CLASS-403-331	c 37	N82-32732 *
US-PATENT-CLASS-374-29	c 35	N91-31608 *	US-PATENT-CLASS-382-22	c 54	N92-29129 *	US-PATENT-CLASS-403-331	c 37	N91-14610 *
US-PATENT-CLASS-374-29	c 35	N92-22038 *	US-PATENT-CLASS-382-31	c 74	N89-14078 *	US-PATENT-CLASS-403-331	c 37	N91-14614 *
US-PATENT-CLASS-374-36	c 25	N88-29002 *	US-PATENT-CLASS-382-31	c 74	N91-25840 *	US-PATENT-CLASS-403-334	c 37	N91-15544 *
US-PATENT-CLASS-374-45	c 38	N92-29154 *	US-PATENT-CLASS-382-31	c 60	N92-33057 *	US-PATENT-CLASS-403-340	c 37	N82-32732 *
US-PATENT-CLASS-374-46	c 34	N83-34221 *	US-PATENT-CLASS-382-32	c 74	N91-25840 *	US-PATENT-CLASS-403-341	c 18	N87-27713 *
US-PATENT-CLASS-374-46	c 25	N86-19413 *	US-PATENT-CLASS-382-32	c 60	N92-33057 *	US-PATENT-CLASS-403-348	c 37	N85-30336 *
US-PATENT-CLASS-374-49	c 14	N91-27175 *	US-PATENT-CLASS-382-41	c 60	N89-26400 *	US-PATENT-CLASS-403-381	c 37	N91-14610 *
US-PATENT-CLASS-374-4	c 38	N92-29154 *	US-PATENT-CLASS-382-42	c 74	N86-21348 *	US-PATENT-CLASS-403-385	c 37	N91-14617 *
US-PATENT-CLASS-374-50	c 14	N91-27175 *	US-PATENT-CLASS-382-42	c 60	N88-24169 *	US-PATENT-CLASS-403-388	c 37	N86-27630 *
US-PATENT-CLASS-374-51	c 39	N83-32081 *	US-PATENT-CLASS-382-42	c 60	N89-26400 *	US-PATENT-CLASS-403-391	c 37	N91-14617 *
US-PATENT-CLASS-374-8	c 25	N86-19413 *	US-PATENT-CLASS-382-43	c 74	N91-25840 *	US-PATENT-CLASS-403-404	c 37	N92-29120 *
US-PATENT-CLASS-374-8	c 09	N91-21157 *	US-PATENT-CLASS-382-49	c 60	N89-26400 *	US-PATENT-CLASS-403-408.1	c 37	N86-27630 *
US-PATENT-CLASS-374-8	c 25	N91-32196 *	US-PATENT-CLASS-382-49	c 74	N91-25840 *	US-PATENT-CLASS-403-408	c 37	N85-29285 *
US-PATENT-CLASS-374-9	c 32	N87-21206 *	US-PATENT-CLASS-382-6	c 74	N91-25840 *	US-PATENT-CLASS-403-4	c 18	N89-28554 *
US-PATENT-CLASS-375-101	c 32	N87-25511 *	US-PATENT-CLASS-384-101	c 37	N85-33490 *	US-PATENT-CLASS-403-51	c 18	N89-28553 *
US-PATENT-CLASS-375-102	c 32	N87-25511 *	US-PATENT-CLASS-384-103	c 37	N86-19606 *	US-PATENT-CLASS-403-56	c 18	N85-29991 *
US-PATENT-CLASS-375-104	c 35	N81-19427 *	US-PATENT-CLASS-384-106	c 37	N86-19606 *	US-PATENT-CLASS-403-57	c 37	N91-17387 *
US-PATENT-CLASS-375-106	c 60	N82-16747 *	US-PATENT-CLASS-384-124	c 27	N83-34043 *	US-PATENT-CLASS-403-64	c 31	N86-19479 *
US-PATENT-CLASS-375-107	c 32	N82-31583 *	US-PATENT-CLASS-384-99	c 37	N85-33490 *	US-PATENT-CLASS-403-72	c 18	N91-27199 *
US-PATENT-CLASS-375-107	c 32	N81-14186 *	US-PATENT-CLASS-388-821	c 33	N90-21951 *	US-PATENT-CLASS-403-76	c 18	N85-29991 *
US-PATENT-CLASS-375-110	c 32	N87-21207 *	US-PATENT-CLASS-39-25.35	c 33	N86-20671 *	US-PATENT-CLASS-403-85	c 18	N87-14373 *
US-PATENT-CLASS-375-114	c 60	N82-16747 *	US-PATENT-CLASS-395-24	c 32	N92-22033 *	US-PATENT-CLASS-403-90	c 18	N85-29991 *
US-PATENT-CLASS-375-115	c 32	N81-15179 *	US-PATENT-CLASS-395-86	c 37	N92-22036 *	US-PATENT-CLASS-405-188	c 18	N90-20126 *
US-PATENT-CLASS-375-116	c 60	N82-16747 *	US-PATENT-CLASS-395-90	c 63	N92-33019 *	US-PATENT-CLASS-405-188	c 18	N91-14374 *
US-PATENT-CLASS-375-120	c 32	N84-27952 *	US-PATENT-CLASS-395-95	c 37	N92-22036 *	US-PATENT-CLASS-405-229	c 44	N79-24432 *
US-PATENT-CLASS-375-120	c 32	N87-21207 *	US-PATENT-CLASS-4-DIG.9	c 54	N91-14724 *	US-PATENT-CLASS-405-263	c 44	N79-24432 *
US-PATENT-CLASS-375-120	c 33	N87-25531 *	US-PATENT-CLASS-4-10	c 54	N74-20725 *	US-PATENT-CLASS-406-155	c 37	N84-16561 *
US-PATENT-CLASS-375-1	c 32	N81-15179 *	US-PATENT-CLASS-4-110	c 05	N72-22093 *	US-PATENT-CLASS-407-117	c 37	N81-14319 *
US-PATENT-CLASS-375-1	c 35	N81-19427 *	US-PATENT-CLASS-4-120	c 54	N74-20725 *	US-PATENT-CLASS-407-85	c 37	N81-14319 *
US-PATENT-CLASS-375-1	c 33	N81-33405 *	US-PATENT-CLASS-4-144.3	c 52	N81-24711 *	US-PATENT-CLASS-408-1-R	c 31	N87-25491 *
US-PATENT-CLASS-375-23	c 32	N87-21207 *	US-PATENT-CLASS-4-144.3	c 52	N81-28740 *	US-PATENT-CLASS-408-1-R	c 37	N81-14319 *
US-PATENT-CLASS-375-34	c 35	N81-19427 *	US-PATENT-CLASS-4-209R	c 54	N91-14723 *	US-PATENT-CLASS-408-1-R	c 31	N83-27058 *
US-PATENT-CLASS-375-39	c 32	N87-25511 *	US-PATENT-CLASS-4-316	c 54	N91-14723 *	US-PATENT-CLASS-408-111	c 37	N74-25968 *
US-PATENT-CLASS-375-53	c 32	N91-14523 *	US-PATENT-CLASS-4-316	c 54	N91-14724 *	US-PATENT-CLASS-408-112	c 37	N75-25186 *
US-PATENT-CLASS-375-53	c 32	N91-25316 *	US-PATENT-CLASS-4-482	c 54	N91-14723 *	US-PATENT-CLASS-408-137	c 15	N71-33518 *
US-PATENT-CLASS-375-53	c 32	N91-25318 *	US-PATENT-CLASS-4-482	c 54	N91-14724 *	US-PATENT-CLASS-408-14	c 35	N92-21723 *
US-PATENT-CLASS-375-53	c 32	N91-27439 *	US-PATENT-CLASS-4-498	c 44	N84-34792 *	US-PATENT-CLASS-408-16	c 35	N92-21723 *
US-PATENT-CLASS-375-54	c 33	N81-15192 *	US-PATENT-CLASS-4-661	c 54	N91-14724 *	US-PATENT-CLASS-408-186	c 37	N75-25186 *
US-PATENT-CLASS-375-54	c 32	N87-25511 *	US-PATENT-CLASS-4-661	c 54	N92-29137 *	US-PATENT-CLASS-408-193	c 37	N75-25186 *
US-PATENT-CLASS-375-54	c 33	N87-25531 *	US-PATENT-CLASS-4-99	c 05	N72-22093 *	US-PATENT-CLASS-408-195	c 37	N75-25186 *
US-PATENT-CLASS-375-56	c 32	N91-25316 *	US-PATENT-CLASS-40-28	c 12	N71-18603 *	US-PATENT-CLASS-408-241S	c 35	N92-21723 *
US-PATENT-CLASS-375-56	c 32	N91-27439 *	US-PATENT-CLASS-40-703	c 35	N92-22038 *	US-PATENT-CLASS-408-61	c 31	N83-27058 *
US-PATENT-CLASS-375-57	c 32	N91-14523 *	US-PATENT-CLASS-403-DIG.1	c 31	N92-16161 *	US-PATENT-CLASS-408-80	c 37	N74-25968 *
US-PATENT-CLASS-375-58	c 32	N81-15179 *	US-PATENT-CLASS-403-102	c 37	N85-30336 *	US-PATENT-CLASS-409-131	c 31	N83-27058 *
US-PATENT-CLASS-375-59	c 33	N87-25531 *	US-PATENT-CLASS-403-102	c 18	N87-14373 *	US-PATENT-CLASS-41R	c 27	N81-15104 *
US-PATENT-CLASS-375-67	c 33	N81-15192 *	US-PATENT-CLASS-403-105	c 37	N79-14382 *	US-PATENT-CLASS-410-156	c 37	N85-34401 *
US-PATENT-CLASS-375-76	c 33	N87-25531 *	US-PATENT-CLASS-403-113	c 37	N86-19605 *	US-PATENT-CLASS-410-79	c 18	N85-29991 *
US-PATENT-CLASS-375-77	c 32	N84-27952 *	US-PATENT-CLASS-403-113	c 37	N91-17387 *	US-PATENT-CLASS-410-80	c 37	N91-27561 *
US-PATENT-CLASS-375-80	c 04	N91-14321 *	US-PATENT-CLASS-403-119	c 18	N87-14373 *	US-PATENT-CLASS-410-84	c 37	N91-27561 *
US-PATENT-CLASS-375-80	c 32	N92-21712 *	US-PATENT-CLASS-403-120	c 37	N86-19605 *	US-PATENT-CLASS-410-90	c 18	N85-29991 *

US-PATENT-CLASS-411-103	c 37	N85-30335 *	US-PATENT-CLASS-415-2R	c 44	N82-24639 *	US-PATENT-CLASS-417-395	c 35	N75-19611 *
US-PATENT-CLASS-411-108	c 37	N85-30335 *	US-PATENT-CLASS-415-2R	c 44	N84-23018 *	US-PATENT-CLASS-417-399	c 44	N83-14693 *
US-PATENT-CLASS-411-14	c 37	N92-29150 *	US-PATENT-CLASS-415-200	c 07	N79-14096 *	US-PATENT-CLASS-417-417	c 44	N83-28574 *
US-PATENT-CLASS-411-166	c 37	N87-22976 *	US-PATENT-CLASS-415-200	c 37	N79-18318 *	US-PATENT-CLASS-417-417	c 31	N85-21404 *
US-PATENT-CLASS-411-267	c 37	N92-29150 *	US-PATENT-CLASS-415-201	c 07	N79-14096 *	US-PATENT-CLASS-417-462	c 37	N84-28081 *
US-PATENT-CLASS-411-348	c 31	N92-18161 *	US-PATENT-CLASS-415-229	c 37	N91-14608 *	US-PATENT-CLASS-417-470	c 35	N74-15126 *
US-PATENT-CLASS-411-353	c 37	N83-19091 *	US-PATENT-CLASS-415-2	c 44	N80-21828 *	US-PATENT-CLASS-417-471	c 35	N74-15126 *
US-PATENT-CLASS-411-354	c 37	N92-21726 *	US-PATENT-CLASS-415-47	c 07	N83-31603 *	US-PATENT-CLASS-417-475	c 37	N86-32738 *
US-PATENT-CLASS-411-368	c 37	N85-29285 *	US-PATENT-CLASS-415-68	c 37	N85-29282 *	US-PATENT-CLASS-417-488	c 31	N85-21404 *
US-PATENT-CLASS-411-368	c 37	N87-22976 *	US-PATENT-CLASS-415-9	c 44	N79-14527 *	US-PATENT-CLASS-417-50	c 15	N71-27084 *
US-PATENT-CLASS-411-378	c 37	N85-29285 *	US-PATENT-CLASS-416-104	c 05	N77-17029 *	US-PATENT-CLASS-417-52	c 37	N74-27904 *
US-PATENT-CLASS-411-385	c 37	N92-21726 *	US-PATENT-CLASS-416-114	c 05	N81-19087 *	US-PATENT-CLASS-417-53	c 31	N90-23587 *
US-PATENT-CLASS-411-424	c 37	N87-22976 *	US-PATENT-CLASS-416-114	c 08	N87-23631 *	US-PATENT-CLASS-417-572	c 31	N90-23587 *
US-PATENT-CLASS-411-426	c 37	N85-29285 *	US-PATENT-CLASS-416-115	c 02	N72-11018 *	US-PATENT-CLASS-417-88	c 44	N78-32539 *
US-PATENT-CLASS-411-427	c 37	N87-22976 *	US-PATENT-CLASS-416-117	c 37	N84-12493 *	US-PATENT-CLASS-418-113	c 37	N82-16408 *
US-PATENT-CLASS-411-433	c 37	N92-29150 *	US-PATENT-CLASS-416-121	c 02	N72-11018 *	US-PATENT-CLASS-418-142	c 37	N82-16408 *
US-PATENT-CLASS-411-501	c 37	N85-29285 *	US-PATENT-CLASS-416-127	c 02	N72-11018 *	US-PATENT-CLASS-419-14	c 24	N91-27244 *
US-PATENT-CLASS-411-517	c 37	N83-19091 *	US-PATENT-CLASS-416-130	c 02	N72-11018 *	US-PATENT-CLASS-419-24	c 24	N90-23493 *
US-PATENT-CLASS-411-531	c 37	N85-29285 *	US-PATENT-CLASS-416-132B	c 37	N84-12493 *	US-PATENT-CLASS-419-24	c 24	N91-17145 *
US-PATENT-CLASS-411-531	c 37	N87-22976 *	US-PATENT-CLASS-416-132R	c 05	N79-17847 *	US-PATENT-CLASS-419-30	c 24	N91-27244 *
US-PATENT-CLASS-411-65	c 37	N92-21726 *	US-PATENT-CLASS-416-135	c 07	N77-32148 *	US-PATENT-CLASS-419-32	c 24	N91-27244 *
US-PATENT-CLASS-411-901	c 37	N92-21726 *	US-PATENT-CLASS-416-135	c 37	N78-10468 *	US-PATENT-CLASS-419-36	c 24	N90-23493 *
US-PATENT-CLASS-411-908	c 37	N92-21726 *	US-PATENT-CLASS-416-138	c 05	N77-17029 *	US-PATENT-CLASS-419-36	c 24	N91-17145 *
US-PATENT-CLASS-411-909	c 37	N92-21726 *	US-PATENT-CLASS-416-138	c 05	N79-17847 *	US-PATENT-CLASS-419-36	c 24	N91-27244 *
US-PATENT-CLASS-414-1	c 37	N80-14398 *	US-PATENT-CLASS-416-141	c 05	N77-17029 *	US-PATENT-CLASS-419-37	c 24	N90-23493 *
US-PATENT-CLASS-414-1	c 37	N81-14320 *	US-PATENT-CLASS-416-141	c 37	N78-10468 *	US-PATENT-CLASS-419-37	c 24	N91-17145 *
US-PATENT-CLASS-414-1	c 54	N86-28618 *	US-PATENT-CLASS-416-144	c 35	N78-24515 *	US-PATENT-CLASS-419-38	c 24	N91-27244 *
US-PATENT-CLASS-414-217	c 37	N85-29286 *	US-PATENT-CLASS-416-145	c 05	N85-29947 *	US-PATENT-CLASS-419-39	c 24	N91-27244 *
US-PATENT-CLASS-414-217	c 31	N91-15423 *	US-PATENT-CLASS-416-149	c 02	N72-11018 *	US-PATENT-CLASS-419-48	c 24	N91-17145 *
US-PATENT-CLASS-414-220	c 31	N91-15423 *	US-PATENT-CLASS-416-153	c 07	N77-14025 *	US-PATENT-CLASS-419-49	c 24	N91-17145 *
US-PATENT-CLASS-414-222	c 37	N82-32731 *	US-PATENT-CLASS-416-157B	c 07	N79-14095 *	US-PATENT-CLASS-419-49	c 24	N91-27244 *
US-PATENT-CLASS-414-226	c 37	N82-32731 *	US-PATENT-CLASS-416-158	c 08	N87-23631 *	US-PATENT-CLASS-419-8	c 24	N90-23493 *
US-PATENT-CLASS-414-288	c 85	N85-34722 *	US-PATENT-CLASS-416-160	c 07	N77-14025 *	US-PATENT-CLASS-419-8	c 24	N91-17145 *
US-PATENT-CLASS-414-328	c 85	N85-34722 *	US-PATENT-CLASS-416-160	c 07	N79-14095 *	US-PATENT-CLASS-42-1.13	c 03	N91-15142 *
US-PATENT-CLASS-414-373	c 85	N85-34722 *	US-PATENT-CLASS-416-162	c 07	N77-14025 *	US-PATENT-CLASS-42-1F	c 11	N72-22247 *
US-PATENT-CLASS-414-4	c 37	N79-28551 *	US-PATENT-CLASS-416-162	c 07	N79-14095 *	US-PATENT-CLASS-42-101	c 44	N86-25874 *
US-PATENT-CLASS-414-4	c 54	N81-26718 *	US-PATENT-CLASS-416-165	c 07	N77-14025 *	US-PATENT-CLASS-42-215	c 44	N76-29704 *
US-PATENT-CLASS-414-4	c 37	N86-20789 *	US-PATENT-CLASS-416-167	c 07	N77-14025 *	US-PATENT-CLASS-420-445	c 26	N82-31505 *
US-PATENT-CLASS-414-5	c 54	N86-28618 *	US-PATENT-CLASS-416-167	c 07	N79-14095 *	US-PATENT-CLASS-420-460	c 26	N87-14482 *
US-PATENT-CLASS-414-689	c 18	N89-12621 *	US-PATENT-CLASS-416-190	c 07	N77-32148 *	US-PATENT-CLASS-420-529	c 26	N89-28621 *
US-PATENT-CLASS-414-6	c 54	N79-24652 *	US-PATENT-CLASS-416-193A	c 07	N77-32148 *	US-PATENT-CLASS-420-533	c 26	N89-28621 *
US-PATENT-CLASS-414-718	c 37	N86-20789 *	US-PATENT-CLASS-416-1	c 34	N83-27144 *	US-PATENT-CLASS-420-54	c 26	N89-14303 *
US-PATENT-CLASS-414-718	c 18	N89-12621 *	US-PATENT-CLASS-416-200	c 02	N72-11018 *	US-PATENT-CLASS-420-551	c 26	N82-31505 *
US-PATENT-CLASS-414-729	c 37	N91-14616 *	US-PATENT-CLASS-416-214A	c 07	N78-33101 *	US-PATENT-CLASS-420-588	c 26	N82-31505 *
US-PATENT-CLASS-414-730	c 37	N81-27519 *	US-PATENT-CLASS-416-220R	c 07	N77-27116 *	US-PATENT-CLASS-420-62	c 26	N89-14303 *
US-PATENT-CLASS-414-730	c 37	N86-19603 *	US-PATENT-CLASS-416-220R	c 37	N78-10468 *	US-PATENT-CLASS-420-79	c 26	N89-14303 *
US-PATENT-CLASS-414-735	c 54	N81-26718 *	US-PATENT-CLASS-416-221	c 07	N77-27116 *	US-PATENT-CLASS-420-80	c 26	N89-14303 *
US-PATENT-CLASS-414-735	c 18	N88-23828 *	US-PATENT-CLASS-416-223-R	c 02	N89-14224 *	US-PATENT-CLASS-420-81	c 26	N89-14303 *
US-PATENT-CLASS-414-735	c 18	N89-12621 *	US-PATENT-CLASS-416-223R	c 02	N84-11136 *	US-PATENT-CLASS-421-209	c 33	N91-31529 *
US-PATENT-CLASS-414-737	c 37	N92-33018 *	US-PATENT-CLASS-416-223R	c 02	N84-28732 *	US-PATENT-CLASS-421-457	c 33	N91-31529 *
US-PATENT-CLASS-414-739	c 37	N82-32731 *	US-PATENT-CLASS-416-223	c 07	N74-28226 *	US-PATENT-CLASS-422-101	c 51	N91-31755 *
US-PATENT-CLASS-414-744A	c 54	N81-26718 *	US-PATENT-CLASS-416-224	c 24	N77-19170 *	US-PATENT-CLASS-422-102	c 76	N92-34171 *
US-PATENT-CLASS-414-750	c 18	N88-23828 *	US-PATENT-CLASS-416-224	c 07	N84-22560 *	US-PATENT-CLASS-422-103	c 35	N85-29213 *
US-PATENT-CLASS-414-753	c 37	N86-20789 *	US-PATENT-CLASS-416-228	c 05	N80-14107 *	US-PATENT-CLASS-422-104	c 09	N91-21157 *
US-PATENT-CLASS-414-786	c 85	N85-34722 *	US-PATENT-CLASS-416-230	c 24	N77-19170 *	US-PATENT-CLASS-422-109	c 54	N81-24724 *
US-PATENT-CLASS-414-7	c 54	N86-28618 *	US-PATENT-CLASS-416-233	c 07	N84-22560 *	US-PATENT-CLASS-422-111	c 35	N90-22025 *
US-PATENT-CLASS-414-7	c 54	N86-28620 *	US-PATENT-CLASS-416-237	c 07	N74-28226 *	US-PATENT-CLASS-422-121	c 35	N84-17555 *
US-PATENT-CLASS-414-7	c 37	N91-14616 *	US-PATENT-CLASS-416-238	c 05	N80-14107 *	US-PATENT-CLASS-422-126	c 35	N90-22025 *
US-PATENT-CLASS-414-8	c 54	N86-28618 *	US-PATENT-CLASS-416-23	c 05	N85-29947 *	US-PATENT-CLASS-422-129	c 37	N85-21652 *
US-PATENT-CLASS-415-DIG.8	c 44	N82-24639 *	US-PATENT-CLASS-416-241A	c 07	N77-32148 *	US-PATENT-CLASS-422-169	c 35	N84-17555 *
US-PATENT-CLASS-415-DIG.8	c 44	N84-23018 *	US-PATENT-CLASS-416-241R	c 26	N84-33555 *	US-PATENT-CLASS-422-176	c 34	N92-16243 *
US-PATENT-CLASS-415-101	c 44	N80-21828 *	US-PATENT-CLASS-416-242	c 02	N84-11136 *	US-PATENT-CLASS-422-178	c 35	N84-17555 *
US-PATENT-CLASS-415-115	c 07	N79-10057 *	US-PATENT-CLASS-416-242	c 02	N84-28732 *	US-PATENT-CLASS-422-186	c 25	N82-28368 *
US-PATENT-CLASS-415-115	c 34	N83-27144 *	US-PATENT-CLASS-416-244A	c 07	N78-33101 *	US-PATENT-CLASS-422-186	c 35	N84-17555 *
US-PATENT-CLASS-415-115	c 07	N84-33410 *	US-PATENT-CLASS-416-248	c 37	N78-10468 *	US-PATENT-CLASS-422-187	c 37	N80-10494 *
US-PATENT-CLASS-415-115	c 34	N85-33433 *	US-PATENT-CLASS-416-25	c 05	N75-12930 *	US-PATENT-CLASS-422-198	c 25	N82-28368 *
US-PATENT-CLASS-415-116	c 07	N79-10057 *	US-PATENT-CLASS-416-2	c 44	N79-14527 *	US-PATENT-CLASS-422-199	c 37	N80-10494 *
US-PATENT-CLASS-415-118	c 35	N83-35338 *	US-PATENT-CLASS-416-500	c 05	N81-19087 *	US-PATENT-CLASS-422-199	c 37	N85-21652 *
US-PATENT-CLASS-415-136	c 37	N88-23978 *	US-PATENT-CLASS-416-500	c 05	N85-29947 *	US-PATENT-CLASS-422-200	c 44	N83-10501 *
US-PATENT-CLASS-415-143	c 34	N79-20335 *	US-PATENT-CLASS-416-51	c 05	N79-17847 *	US-PATENT-CLASS-422-202	c 44	N83-10501 *
US-PATENT-CLASS-415-145	c 07	N77-28118 *	US-PATENT-CLASS-416-61	c 35	N78-24515 *	US-PATENT-CLASS-422-208	c 37	N80-10494 *
US-PATENT-CLASS-415-145	c 07	N82-32366 *	US-PATENT-CLASS-416-61	c 37	N79-14382 *	US-PATENT-CLASS-422-224	c 31	N80-18231 *
US-PATENT-CLASS-415-170.1	c 37	N91-14608 *	US-PATENT-CLASS-416-88	c 05	N79-17847 *	US-PATENT-CLASS-422-224	c 44	N83-10501 *
US-PATENT-CLASS-415-170-R	c 37	N88-23978 *	US-PATENT-CLASS-416-89	c 05	N79-17847 *	US-PATENT-CLASS-422-235	c 37	N80-10494 *
US-PATENT-CLASS-415-174.5	c 37	N91-14608 *	US-PATENT-CLASS-416-92	c 07	N84-22560 *	US-PATENT-CLASS-422-242	c 37	N80-10494 *
US-PATENT-CLASS-415-174	c 37	N79-18318 *	US-PATENT-CLASS-416-97A	c 34	N85-33433 *	US-PATENT-CLASS-422-245	c 76	N90-23242 *
US-PATENT-CLASS-415-174	c 37	N80-26658 *	US-PATENT-CLASS-416-97R	c 34	N83-27144 *	US-PATENT-CLASS-422-245	c 76	N90-24169 *
US-PATENT-CLASS-415-174	c 37	N82-19540 *	US-PATENT-CLASS-416-97R	c 07	N84-22560 *	US-PATENT-CLASS-422-245	c 76	N92-25398 *
US-PATENT-CLASS-415-174	c 27	N82-29453 *	US-PATENT-CLASS-416-9	c 37	N90-23742 *	US-PATENT-CLASS-422-245	c 76	N92-34171 *
US-PATENT-CLASS-415-174	c 18	N83-20996 *	US-PATENT-CLASS-417-138	c 35	N75-19611 *	US-PATENT-CLASS-422-246	c 76	N80-32244 *
US-PATENT-CLASS-415-174	c 37	N84-22957 *	US-PATENT-CLASS-417-141	c 44	N76-29701 *	US-PATENT-CLASS-422-246	c 33	N81-19389 *
US-PATENT-CLASS-415-174	c 37	N86-20788 *	US-PATENT-CLASS-417-152	c 15	N72-22489 *	US-PATENT-CLASS-422-246	c 76	N82-30105 *
US-PATENT-CLASS-415-175	c 07	N83-31603 *	US-PATENT-CLASS-417-159	c 09	N84-27749 *	US-PATENT-CLASS-422-246	c 76	N84-35113 *
US-PATENT-CLASS-415-178	c 07	N82-32366 *	US-PATENT-CLASS-417-15	c 37	N83-26078 *	US-PATENT-CLASS-422-246	c 76	N88-24544 *
US-PATENT-CLASS-415-178	c 07	N83-31603 *	US-PATENT-CLASS-417-190	c 35	N91-21496 *	US-PATENT-CLASS-422-247	c 76	N92-25398 *
US-PATENT-CLASS-415-180	c 07	N77-23106 *	US-PATENT-CLASS-417-207	c 44	N76-29701 *	US-PATENT-CLASS-422-249	c 33	N81-19389 *
US-PATENT-CLASS-415-180	c 37	N78-10467 *	US-PATENT-CLASS-417-209	c 34	N76-17317 *	US-PATENT-CLASS-422-249	c 76	N84-35113 *
US-PATENT-CLASS-415-181	c 07	N74-28226 *	US-PATENT-CLASS-417-209	c 44	N76-29701 *	US-PATENT-CLASS-422-249	c 76	N90-20896 *
US-PATENT-CLASS-415-181	c 07	N74-31270 *	US-PATENT-CLASS-417-209	c 34	N92-29125 *	US-PATENT-CLASS-422-251	c 76	N88-14835 *
US-PATENT-CLASS-415-196	c 37	N80-26658 *	US-PATENT-CLASS-417-225	c 35	N78-10428 *	US-PATENT-CLASS-422-254	c 76	N92-34171 *
US-PATENT-CLASS-415-196	c 37	N82-19540 *	US-PATENT-CLASS-417-328	c 37	N84-28081 *	US-PATENT-CLASS-422-260	c 76	N88-14835 *
US-PATENT-CLASS-415-197	c 18	N83-20996 *	US-PATENT-CLASS-417-36	c 35	N75-19611 *	US-PATENT-CLASS-422-27	c 54	N81-24724 *
US-PATENT-CLASS-415-199	c 05	N80-14107 *	US-PATENT-CLASS-417-379	c 44	N76-29701 *	US-PATENT-CLASS-422-30	c 54	N81-24724 *
US-PATENT-CLASS-415-1	c 34	N79-20335 *	US-PATENT-CLASS-417-383	c 37	N80-31790 *	US-PATENT-CLASS-422-34	c 54	N81-24724 *
US-PATENT-CLASS-415-1	c 07	N83-31603 *	US-PATENT-CLASS-417-391	c 15	N73-24513 *	US-PATENT-CLASS-422-3	c 54	N81-24724 *
US-PATENT-CLASS-415-1	c 37	N85-29282 *	US-PATENT-CLASS-417-392	c 37	N84-28081 *	US-PATENT-CLASS-422-40	c 35	N82-11432 *

US-PATENT-CLASS-422-41	c 52	N79-14749 *	US-PATENT-CLASS-423-650	c 28	N80-10374 *	US-PATENT-CLASS-427-244	c 25	N82-21268 *
US-PATENT-CLASS-422-48	c 52	N79-14749 *	US-PATENT-CLASS-423-655	c 28	N81-14495 *	US-PATENT-CLASS-427-245	c 27	N80-23452 *
US-PATENT-CLASS-422-50	c 76	N90-24169 *	US-PATENT-CLASS-423-658.5	c 28	N81-15119 *	US-PATENT-CLASS-427-245	c 31	N88-29052 *
US-PATENT-CLASS-422-52	c 51	N80-16714 *	US-PATENT-CLASS-424-12	c 25	N79-14169 *	US-PATENT-CLASS-427-246	c 25	N82-21268 *
US-PATENT-CLASS-422-52	c 51	N83-27569 *	US-PATENT-CLASS-424-12	c 51	N80-16715 *	US-PATENT-CLASS-427-247	c 31	N83-35177 *
US-PATENT-CLASS-422-56	c 76	N92-34171 *	US-PATENT-CLASS-424-156	c 25	N83-33977 *	US-PATENT-CLASS-427-248.1	c 27	N86-19458 *
US-PATENT-CLASS-422-62	c 35	N90-22025 *	US-PATENT-CLASS-424-180	c 52	N75-15270 *	US-PATENT-CLASS-427-248E	c 37	N78-13436 *
US-PATENT-CLASS-422-68	c 51	N80-27067 *	US-PATENT-CLASS-424-247	c 52	N81-29764 *	US-PATENT-CLASS-427-248J	c 44	N78-24609 *
US-PATENT-CLASS-422-78	c 25	N86-19413 *	US-PATENT-CLASS-424-267	c 52	N81-29764 *	US-PATENT-CLASS-427-248	c 44	N76-28635 *
US-PATENT-CLASS-422-78	c 09	N91-21157 *	US-PATENT-CLASS-424-274	c 52	N81-14613 *	US-PATENT-CLASS-427-249	c 44	N76-28635 *
US-PATENT-CLASS-422-80	c 25	N82-12166 *	US-PATENT-CLASS-424-274	c 52	N81-29764 *	US-PATENT-CLASS-427-249	c 44	N78-24609 *
US-PATENT-CLASS-422-80	c 09	N91-21157 *	US-PATENT-CLASS-424-3	c 51	N77-27677 *	US-PATENT-CLASS-427-250	c 12	N76-15189 *
US-PATENT-CLASS-422-83	c 34	N92-16243 *	US-PATENT-CLASS-424-70	c 54	N92-29137 *	US-PATENT-CLASS-427-250	c 44	N76-28635 *
US-PATENT-CLASS-422-86	c 35	N85-29213 *	US-PATENT-CLASS-425-DIG.43	c 31	N75-13111 *	US-PATENT-CLASS-427-250	c 37	N78-13436 *
US-PATENT-CLASS-422-88	c 35	N85-29213 *	US-PATENT-CLASS-425-10	c 31	N83-35176 *	US-PATENT-CLASS-427-253	c 27	N82-28441 *
US-PATENT-CLASS-422-93	c 34	N92-16243 *	US-PATENT-CLASS-425-113	c 15	N73-13464 *	US-PATENT-CLASS-427-255	c 37	N78-13436 *
US-PATENT-CLASS-422-98	c 35	N90-22025 *	US-PATENT-CLASS-425-128	c 31	N74-32920 *	US-PATENT-CLASS-427-261	c 44	N78-25527 *
US-PATENT-CLASS-422-99	c 51	N91-31755 *	US-PATENT-CLASS-425-133	c 15	N73-13464 *	US-PATENT-CLASS-427-261	c 44	N79-11472 *
US-PATENT-CLASS-422-99	c 76	N92-34171 *	US-PATENT-CLASS-425-176	c 15	N73-13464 *	US-PATENT-CLASS-427-270	c 27	N76-16229 *
US-PATENT-CLASS-422-9	c 45	N80-14579 *	US-PATENT-CLASS-425-288	c 31	N74-32917 *	US-PATENT-CLASS-427-272	c 31	N90-19427 *
US-PATENT-CLASS-423-DIG.10	c 24	N84-22695 *	US-PATENT-CLASS-425-35	c 31	N74-32917 *	US-PATENT-CLASS-427-272	c 24	N90-25197 *
US-PATENT-CLASS-423-DIG.10	c 31	N85-20153 *	US-PATENT-CLASS-425-378R	c 31	N81-15154 *	US-PATENT-CLASS-427-275	c 27	N76-16229 *
US-PATENT-CLASS-423-131	c 28	N81-15119 *	US-PATENT-CLASS-425-4-R	c 27	N88-23894 *	US-PATENT-CLASS-427-282	c 24	N90-25197 *
US-PATENT-CLASS-423-149	c 26	N80-14229 *	US-PATENT-CLASS-425-405R	c 31	N75-13111 *	US-PATENT-CLASS-427-287	c 27	N76-16229 *
US-PATENT-CLASS-423-1	c 28	N81-15119 *	US-PATENT-CLASS-425-415	c 31	N74-32920 *	US-PATENT-CLASS-427-290	c 24	N90-25197 *
US-PATENT-CLASS-423-231	c 25	N74-12813 *	US-PATENT-CLASS-425-425	c 31	N90-19425 *	US-PATENT-CLASS-427-292	c 24	N79-17916 *
US-PATENT-CLASS-423-235	c 25	N82-28368 *	US-PATENT-CLASS-425-435	c 31	N90-19425 *	US-PATENT-CLASS-427-292	c 24	N83-13172 *
US-PATENT-CLASS-423-242	c 45	N79-12584 *	US-PATENT-CLASS-425-438	c 31	N75-13111 *	US-PATENT-CLASS-427-294	c 27	N79-14214 *
US-PATENT-CLASS-423-247	c 25	N91-21270 *	US-PATENT-CLASS-425-468	c 31	N75-13111 *	US-PATENT-CLASS-427-294	c 26	N85-35267 *
US-PATENT-CLASS-423-249	c 25	N76-27383 *	US-PATENT-CLASS-425-5	c 34	N90-23700 *	US-PATENT-CLASS-427-294	c 24	N92-16025 *
US-PATENT-CLASS-423-276	c 23	N87-23698 *	US-PATENT-CLASS-425-6	c 31	N81-33319 *	US-PATENT-CLASS-427-296	c 26	N84-22734 *
US-PATENT-CLASS-423-284	c 23	N87-23698 *	US-PATENT-CLASS-425-6	c 27	N82-28442 *	US-PATENT-CLASS-427-2	c 52	N90-20616 *
US-PATENT-CLASS-423-293	c 26	N80-14229 *	US-PATENT-CLASS-425-6	c 31	N83-31896 *	US-PATENT-CLASS-427-302	c 74	N78-32854 *
US-PATENT-CLASS-423-303	c 44	N84-23019 *	US-PATENT-CLASS-425-6	c 31	N83-35176 *	US-PATENT-CLASS-427-302	c 24	N83-13172 *
US-PATENT-CLASS-423-33.5	c 25	N79-28253 *	US-PATENT-CLASS-425-6	c 71	N84-28568 *	US-PATENT-CLASS-427-306	c 26	N84-22734 *
US-PATENT-CLASS-423-338	c 76	N87-29360 *	US-PATENT-CLASS-425-6	c 26	N86-32551 *	US-PATENT-CLASS-427-318	c 26	N83-31795 *
US-PATENT-CLASS-423-339	c 76	N87-29360 *	US-PATENT-CLASS-425-6	c 34	N90-23700 *	US-PATENT-CLASS-427-322	c 34	N77-18382 *
US-PATENT-CLASS-423-345	c 76	N76-25049 *	US-PATENT-CLASS-425-7	c 31	N90-19425 *	US-PATENT-CLASS-427-322	c 74	N78-32854 *
US-PATENT-CLASS-423-345	c 76	N79-23798 *	US-PATENT-CLASS-425-75	c 31	N90-19425 *	US-PATENT-CLASS-427-322	c 27	N83-34039 *
US-PATENT-CLASS-423-346	c 76	N76-25049 *	US-PATENT-CLASS-425-77	c 15	N72-20446 *	US-PATENT-CLASS-427-327	c 24	N79-17916 *
US-PATENT-CLASS-423-348	c 26	N80-14229 *	US-PATENT-CLASS-425-7	c 31	N83-35176 *	US-PATENT-CLASS-427-328	c 24	N79-17916 *
US-PATENT-CLASS-423-350	c 37	N80-10494 *	US-PATENT-CLASS-425-804	c 34	N90-23700 *	US-PATENT-CLASS-427-340	c 27	N83-34039 *
US-PATENT-CLASS-423-350	c 31	N80-18231 *	US-PATENT-CLASS-427-108	c 74	N92-29158 *	US-PATENT-CLASS-427-343	c 44	N79-11472 *
US-PATENT-CLASS-423-352	c 36	N76-19427 *	US-PATENT-CLASS-427-109	c 74	N92-29158 *	US-PATENT-CLASS-427-343	c 76	N92-10681 *
US-PATENT-CLASS-423-407	c 24	N76-14203 *	US-PATENT-CLASS-427-113	c 44	N76-28635 *	US-PATENT-CLASS-427-346	c 71	N84-16940 *
US-PATENT-CLASS-423-414	c 24	N84-22695 *	US-PATENT-CLASS-427-113	c 44	N78-24609 *	US-PATENT-CLASS-427-34	c 34	N78-18355 *
US-PATENT-CLASS-423-414	c 31	N85-20153 *	US-PATENT-CLASS-427-113	c 44	N84-28205 *	US-PATENT-CLASS-427-34	c 24	N79-17916 *
US-PATENT-CLASS-423-417	c 26	N80-14229 *	US-PATENT-CLASS-427-115	c 25	N82-21268 *	US-PATENT-CLASS-427-34	c 27	N82-29453 *
US-PATENT-CLASS-423-419P	c 25	N83-33977 *	US-PATENT-CLASS-427-115	c 26	N84-22734 *	US-PATENT-CLASS-427-34	c 27	N83-31855 *
US-PATENT-CLASS-423-439	c 24	N91-15320 *	US-PATENT-CLASS-427-115	c 44	N84-28205 *	US-PATENT-CLASS-427-34	c 31	N83-35177 *
US-PATENT-CLASS-423-439	c 27	N92-10090 *	US-PATENT-CLASS-427-123	c 44	N79-11472 *	US-PATENT-CLASS-427-34	c 37	N84-22957 *
US-PATENT-CLASS-423-445	c 24	N84-22695 *	US-PATENT-CLASS-427-124	c 37	N78-13436 *	US-PATENT-CLASS-427-34	c 26	N84-27855 *
US-PATENT-CLASS-423-445	c 31	N85-20153 *	US-PATENT-CLASS-427-125	c 26	N84-22734 *	US-PATENT-CLASS-427-34	c 75	N91-25875 *
US-PATENT-CLASS-423-445	c 24	N85-21267 *	US-PATENT-CLASS-427-125	c 44	N84-28205 *	US-PATENT-CLASS-427-350	c 24	N79-25142 *
US-PATENT-CLASS-423-446	c 15	N73-19457 *	US-PATENT-CLASS-427-126.6	c 26	N84-22734 *	US-PATENT-CLASS-427-352	c 27	N83-34039 *
US-PATENT-CLASS-423-446	c 24	N84-22695 *	US-PATENT-CLASS-427-126	c 37	N78-13436 *	US-PATENT-CLASS-427-355	c 24	N79-17916 *
US-PATENT-CLASS-423-446	c 31	N85-20153 *	US-PATENT-CLASS-427-126	c 44	N79-11472 *	US-PATENT-CLASS-427-372.2	c 27	N82-33520 *
US-PATENT-CLASS-423-446	c 24	N85-21267 *	US-PATENT-CLASS-427-130	c 44	N77-32583 *	US-PATENT-CLASS-427-372.2	c 44	N84-28205 *
US-PATENT-CLASS-423-447.2	c 24	N83-25789 *	US-PATENT-CLASS-427-140	c 27	N82-33520 *	US-PATENT-CLASS-427-372A	c 24	N79-25142 *
US-PATENT-CLASS-423-447.2	c 24	N92-16025 *	US-PATENT-CLASS-427-140	c 24	N83-13172 *	US-PATENT-CLASS-427-375	c 24	N92-10070 *
US-PATENT-CLASS-423-447.6	c 24	N83-25789 *	US-PATENT-CLASS-427-160	c 34	N77-18382 *	US-PATENT-CLASS-427-376.2	c 26	N85-35267 *
US-PATENT-CLASS-423-447.7	c 24	N83-25789 *	US-PATENT-CLASS-427-160	c 44	N78-19599 *	US-PATENT-CLASS-427-376.6	c 33	N84-16456 *
US-PATENT-CLASS-423-448	c 24	N91-15320 *	US-PATENT-CLASS-427-162	c 12	N76-15189 *	US-PATENT-CLASS-427-376.7	c 33	N84-16456 *
US-PATENT-CLASS-423-448	c 27	N92-10090 *	US-PATENT-CLASS-427-162	c 27	N86-31727 *	US-PATENT-CLASS-427-376A	c 27	N78-32260 *
US-PATENT-CLASS-423-448	c 24	N92-16025 *	US-PATENT-CLASS-427-164	c 27	N78-14164 *	US-PATENT-CLASS-427-376B	c 27	N78-32260 *
US-PATENT-CLASS-423-449	c 24	N84-22695 *	US-PATENT-CLASS-427-164	c 27	N78-31233 *	US-PATENT-CLASS-427-376B	c 24	N79-17916 *
US-PATENT-CLASS-423-449	c 31	N85-20153 *	US-PATENT-CLASS-427-164	c 74	N78-32854 *	US-PATENT-CLASS-427-376C	c 24	N79-17916 *
US-PATENT-CLASS-423-449	c 24	N85-21267 *	US-PATENT-CLASS-427-164	c 27	N80-24357 *	US-PATENT-CLASS-427-376	c 27	N76-22377 *
US-PATENT-CLASS-423-460	c 24	N91-15320 *	US-PATENT-CLASS-427-164	c 27	N86-31727 *	US-PATENT-CLASS-427-376	c 27	N76-23426 *
US-PATENT-CLASS-423-460	c 27	N92-10090 *	US-PATENT-CLASS-427-165	c 27	N86-31727 *	US-PATENT-CLASS-427-379	c 27	N76-22377 *
US-PATENT-CLASS-423-460	c 24	N92-16025 *	US-PATENT-CLASS-427-178	c 24	N85-30027 *	US-PATENT-CLASS-427-379	c 27	N76-23426 *
US-PATENT-CLASS-423-489	c 24	N91-15320 *	US-PATENT-CLASS-427-185	c 24	N92-10070 *	US-PATENT-CLASS-427-379	c 27	N78-32260 *
US-PATENT-CLASS-423-539	c 25	N82-28368 *	US-PATENT-CLASS-427-191	c 26	N85-35267 *	US-PATENT-CLASS-427-379	c 27	N81-19296 *
US-PATENT-CLASS-423-540	c 25	N82-28368 *	US-PATENT-CLASS-427-191	c 26	N86-32550 *	US-PATENT-CLASS-427-379	c 24	N83-13171 *
US-PATENT-CLASS-423-542	c 25	N82-28368 *	US-PATENT-CLASS-427-192	c 26	N86-32550 *	US-PATENT-CLASS-427-379	c 24	N83-13172 *
US-PATENT-CLASS-423-579	c 46	N74-13011 *	US-PATENT-CLASS-427-195	c 24	N92-10070 *	US-PATENT-CLASS-427-379	c 44	N84-28205 *
US-PATENT-CLASS-423-579	c 25	N82-28368 *	US-PATENT-CLASS-427-196	c 27	N76-15310 *	US-PATENT-CLASS-427-37	c 24	N85-30027 *
US-PATENT-CLASS-423-581	c 25	N79-10162 *	US-PATENT-CLASS-427-203	c 27	N76-16229 *	US-PATENT-CLASS-427-380	c 27	N76-22377 *
US-PATENT-CLASS-423-582	c 26	N78-32229 *	US-PATENT-CLASS-427-204	c 27	N76-16229 *	US-PATENT-CLASS-427-380	c 27	N76-23426 *
US-PATENT-CLASS-423-583	c 26	N78-32229 *	US-PATENT-CLASS-427-205	c 27	N76-16229 *	US-PATENT-CLASS-427-380	c 27	N78-32260 *
US-PATENT-CLASS-423-600	c 25	N83-33977 *	US-PATENT-CLASS-427-205	c 27	N82-28441 *	US-PATENT-CLASS-427-380	c 44	N84-28205 *
US-PATENT-CLASS-423-625	c 15	N73-19457 *	US-PATENT-CLASS-427-215	c 27	N78-32260 *	US-PATENT-CLASS-427-380	c 26	N85-35267 *
US-PATENT-CLASS-423-625	c 26	N80-14229 *	US-PATENT-CLASS-427-215	c 24	N83-33950 *	US-PATENT-CLASS-427-384	c 24	N83-13171 *
US-PATENT-CLASS-423-630	c 27	N92-16122 *	US-PATENT-CLASS-427-216	c 33	N84-16456 *	US-PATENT-CLASS-427-384	c 24	N83-13172 *
US-PATENT-CLASS-423-644	c 36	N76-18427 *	US-PATENT-CLASS-427-217	c 33	N84-16456 *	US-PATENT-CLASS-427-385.5	c 27	N81-14078 *
US-PATENT-CLASS-423-648R	c 44	N77-22607 *	US-PATENT-CLASS-427-219.2	c 27	N83-31855 *	US-PATENT-CLASS-427-385.5	c 27	N86-20561 *
US-PATENT-CLASS-423-648R	c 28	N78-24365 *	US-PATENT-CLASS-427-221	c 27	N81-19296 *	US-PATENT-CLASS-427-385B	c 44	N78-25530 *
US-PATENT-CLASS-423-648R	c 28	N80-20402 *	US-PATENT-CLASS-427-226	c 33	N84-16456 *	US-PATENT-CLASS-427-385C	c 44	N78-25530 *
US-PATENT-CLASS-423-648R	c 28	N81-14103 *	US-PATENT-CLASS-427-226	c 44	N84-28205 *	US-PATENT-CLASS-427-386	c 24	N78-27180 *
US-PATENT-CLASS-423-648R	c 25	N82-28368 *	US-PATENT-CLASS-427-228	c 26	N85-35267 *	US-PATENT-CLASS-427-387	c 74	N78-32854 *
US-PATENT-CLASS-423-648R	c 25	N83-29324 *	US-PATENT-CLASS-427-229	c 25	N78-10225 *	US-PATENT-CLASS-427-387	c 24	N83-13171 *
US-PATENT-CLASS-423-649	c 25	N83-29324 *	US-PATENT-CLASS-427-229	c 37	N87-21334 *	US-PATENT-CLASS-427-387	c 24	N83-13172 *
US-PATENT-CLASS-423-650	c 44	N76-18642 *	US-PATENT-CLASS-427-230	c 37	N76-31524 *	US-PATENT-CLASS-427-388.1	c 27	N86-20561 *
US-PATENT-CLASS-423-650	c 44	N76-29700 *	US-PATENT-CLASS-427-240	c 37	N81-33482 *	US-PATENT-CLASS-427-388A	c 24	N78-27180 *
US-PATENT-CLASS-423-650	c 44	N76-29704 *	US-PATENT-CLASS-427-241	c 24	N83-33950 *	US-PATENT-CLASS-427-38	c 74	N78-32854 *
US-PATENT-CLASS-423-650	c 44	N77-10636 *	US-PATENT-CLASS-427-243	c 31	N83-35177 *	US-PATENT-CLASS-427-38	c 27	N80-24437 *

US-PATENT-CLASS-427-38	c 26	N85-29005 *	US-PATENT-CLASS-428-119	c 24	N79-16915 *	US-PATENT-CLASS-428-328	c 24	N77-27188 *
US-PATENT-CLASS-427-38	c 27	N86-19458 *	US-PATENT-CLASS-428-133	c 37	N79-10422 *	US-PATENT-CLASS-428-328	c 54	N90-25498 *
US-PATENT-CLASS-427-38	c 26	N88-14179 *	US-PATENT-CLASS-428-137	c 24	N79-25142 *	US-PATENT-CLASS-428-331	c 27	N78-32260 *
US-PATENT-CLASS-427-38	c 74	N92-29158 *	US-PATENT-CLASS-428-138	c 24	N78-10214 *	US-PATENT-CLASS-428-331	c 27	N83-18908 *
US-PATENT-CLASS-427-393.3	c 27	N82-16238 *	US-PATENT-CLASS-428-139	c 23	N81-29160 *	US-PATENT-CLASS-428-332	c 27	N76-22377 *
US-PATENT-CLASS-427-397.7	c 27	N82-33520 *	US-PATENT-CLASS-428-140	c 24	N81-14000 *	US-PATENT-CLASS-428-332	c 27	N76-23426 *
US-PATENT-CLASS-427-397.7	c 26	N85-35267 *	US-PATENT-CLASS-428-141	c 24	N77-28225 *	US-PATENT-CLASS-428-332	c 24	N79-27180 *
US-PATENT-CLASS-427-398A	c 44	N79-11472 *	US-PATENT-CLASS-428-141	c 27	N82-28440 *	US-PATENT-CLASS-428-332	c 27	N79-12221 *
US-PATENT-CLASS-427-399	c 44	N79-11472 *	US-PATENT-CLASS-428-155	c 37	N82-33521 *	US-PATENT-CLASS-428-332	c 24	N79-25142 *
US-PATENT-CLASS-427-399	c 36	N84-22944 *	US-PATENT-CLASS-428-161	c 24	N84-22957 *	US-PATENT-CLASS-428-332	c 27	N82-24340 *
US-PATENT-CLASS-427-39	c 24	N85-21267 *	US-PATENT-CLASS-428-182	c 18	N77-28225 *	US-PATENT-CLASS-428-334	c 74	N78-15879 *
US-PATENT-CLASS-427-39	c 31	N86-32587 *	US-PATENT-CLASS-428-182	c 31	N84-33450 *	US-PATENT-CLASS-428-336	c 74	N78-15879 *
US-PATENT-CLASS-427-400	c 27	N83-34039 *	US-PATENT-CLASS-428-184	c 18	N89-12786 *	US-PATENT-CLASS-428-336	c 27	N86-31727 *
US-PATENT-CLASS-427-402	c 27	N76-22377 *	US-PATENT-CLASS-428-189	c 27	N84-33450 *	US-PATENT-CLASS-428-339	c 27	N82-24340 *
US-PATENT-CLASS-427-402	c 27	N76-23426 *	US-PATENT-CLASS-428-192	c 27	N79-12221 *	US-PATENT-CLASS-428-341	c 27	N78-32260 *
US-PATENT-CLASS-427-405	c 34	N78-18355 *	US-PATENT-CLASS-428-193	c 27	N82-24339 *	US-PATENT-CLASS-428-347	c 27	N84-14323 *
US-PATENT-CLASS-427-405	c 27	N82-28441 *	US-PATENT-CLASS-428-202	c 27	N82-24339 *	US-PATENT-CLASS-428-35.9	c 24	N90-25196 *
US-PATENT-CLASS-427-405	c 27	N83-31855 *	US-PATENT-CLASS-428-212	c 27	N84-14323 *	US-PATENT-CLASS-428-35	c 34	N77-18382 *
US-PATENT-CLASS-427-405	c 26	N84-27855 *	US-PATENT-CLASS-428-212	c 27	N76-14284 *	US-PATENT-CLASS-428-366	c 24	N79-24062 *
US-PATENT-CLASS-427-407.1	c 27	N83-34039 *	US-PATENT-CLASS-428-212	c 27	N79-12221 *	US-PATENT-CLASS-428-367	c 27	N81-27272 *
US-PATENT-CLASS-427-40	c 27	N78-31233 *	US-PATENT-CLASS-428-212	c 24	N82-29456 *	US-PATENT-CLASS-428-367	c 24	N83-33950 *
US-PATENT-CLASS-427-40	c 27	N79-18052 *	US-PATENT-CLASS-428-213	c 24	N92-21725 *	US-PATENT-CLASS-428-367	c 27	N84-14322 *
US-PATENT-CLASS-427-40	c 27	N80-24437 *	US-PATENT-CLASS-428-213	c 24	N92-21725 *	US-PATENT-CLASS-428-367	c 27	N87-28656 *
US-PATENT-CLASS-427-419.1	c 76	N92-22040 *	US-PATENT-CLASS-428-214	c 27	N76-14284 *	US-PATENT-CLASS-428-367	c 27	N89-29538 *
US-PATENT-CLASS-427-419.2	c 26	N83-31795 *	US-PATENT-CLASS-428-215	c 27	N92-10091 *	US-PATENT-CLASS-428-367	c 24	N90-25196 *
US-PATENT-CLASS-427-419.2	c 26	N84-27855 *	US-PATENT-CLASS-428-216	c 76	N90-24168 *	US-PATENT-CLASS-428-368	c 24	N77-27188 *
US-PATENT-CLASS-427-419.2	c 76	N92-22040 *	US-PATENT-CLASS-428-218	c 27	N82-29456 *	US-PATENT-CLASS-428-368	c 27	N83-18908 *
US-PATENT-CLASS-427-419A	c 34	N78-18355 *	US-PATENT-CLASS-428-218	c 24	N83-13171 *	US-PATENT-CLASS-428-370	c 27	N84-22745 *
US-PATENT-CLASS-427-41	c 27	N78-31233 *	US-PATENT-CLASS-428-220	c 15	N79-26100 *	US-PATENT-CLASS-428-375	c 24	N79-16915 *
US-PATENT-CLASS-427-41	c 74	N78-32854 *	US-PATENT-CLASS-428-241	c 27	N82-24339 *	US-PATENT-CLASS-428-375	c 24	N83-33950 *
US-PATENT-CLASS-427-41	c 27	N79-14214 *	US-PATENT-CLASS-428-241	c 27	N83-18908 *	US-PATENT-CLASS-428-375	c 27	N89-29538 *
US-PATENT-CLASS-427-41	c 27	N79-18052 *	US-PATENT-CLASS-428-242	c 27	N82-24339 *	US-PATENT-CLASS-428-376	c 24	N90-25196 *
US-PATENT-CLASS-427-41	c 27	N80-23452 *	US-PATENT-CLASS-428-244	c 27	N83-18908 *	US-PATENT-CLASS-428-379	c 24	N90-25196 *
US-PATENT-CLASS-427-421	c 71	N84-16940 *	US-PATENT-CLASS-428-245	c 27	N82-24339 *	US-PATENT-CLASS-428-390	c 27	N89-29538 *
US-PATENT-CLASS-427-421	c 26	N86-32550 *	US-PATENT-CLASS-428-245	c 27	N83-18908 *	US-PATENT-CLASS-428-392	c 24	N83-33950 *
US-PATENT-CLASS-427-422	c 24	N85-30027 *	US-PATENT-CLASS-428-246	c 27	N84-14322 *	US-PATENT-CLASS-428-403	c 27	N92-25397 *
US-PATENT-CLASS-427-423	c 34	N78-18355 *	US-PATENT-CLASS-428-246	c 03	N84-33394 *	US-PATENT-CLASS-428-404	c 25	N92-33009 *
US-PATENT-CLASS-427-423	c 27	N82-29453 *	US-PATENT-CLASS-428-247	c 33	N79-12331 *	US-PATENT-CLASS-428-405	c 27	N92-25397 *
US-PATENT-CLASS-427-423	c 27	N83-31855 *	US-PATENT-CLASS-428-247	c 33	N82-26571 *	US-PATENT-CLASS-428-406	c 27	N78-32260 *
US-PATENT-CLASS-427-423	c 31	N83-35177 *	US-PATENT-CLASS-428-251	c 27	N82-24339 *	US-PATENT-CLASS-428-407	c 27	N92-25397 *
US-PATENT-CLASS-427-423	c 37	N84-22957 *	US-PATENT-CLASS-428-252	c 54	N90-25498 *	US-PATENT-CLASS-428-408	c 27	N81-27272 *
US-PATENT-CLASS-427-425	c 37	N82-24492 *	US-PATENT-CLASS-428-257	c 27	N82-24339 *	US-PATENT-CLASS-428-408	c 27	N84-14322 *
US-PATENT-CLASS-427-426	c 27	N76-15310 *	US-PATENT-CLASS-428-258	c 33	N79-12331 *	US-PATENT-CLASS-428-408	c 27	N84-22745 *
US-PATENT-CLASS-427-426	c 71	N84-16940 *	US-PATENT-CLASS-428-259	c 33	N79-12331 *	US-PATENT-CLASS-428-408	c 27	N85-34281 *
US-PATENT-CLASS-427-427	c 24	N78-24290 *	US-PATENT-CLASS-428-260	c 27	N81-27272 *	US-PATENT-CLASS-428-408	c 24	N86-28131 *
US-PATENT-CLASS-427-427	c 26	N86-32550 *	US-PATENT-CLASS-428-260	c 27	N82-24339 *	US-PATENT-CLASS-428-408	c 27	N89-29538 *
US-PATENT-CLASS-427-429	c 27	N81-14078 *	US-PATENT-CLASS-428-260	c 27	N83-18908 *	US-PATENT-CLASS-428-408	c 52	N90-20616 *
US-PATENT-CLASS-427-436	c 33	N84-16456 *	US-PATENT-CLASS-428-260	c 27	N84-14322 *	US-PATENT-CLASS-428-410	c 27	N84-14323 *
US-PATENT-CLASS-427-437	c 33	N84-16456 *	US-PATENT-CLASS-428-262	c 27	N85-34281 *	US-PATENT-CLASS-428-410	c 23	N86-19376 *
US-PATENT-CLASS-427-443.2	c 25	N84-12262 *	US-PATENT-CLASS-428-263	c 27	N87-14516 *	US-PATENT-CLASS-428-411	c 27	N78-14164 *
US-PATENT-CLASS-427-443.2	c 24	N92-16025 *	US-PATENT-CLASS-428-263	c 27	N82-16238 *	US-PATENT-CLASS-428-411	c 27	N78-31233 *
US-PATENT-CLASS-427-443	c 44	N84-28205 *	US-PATENT-CLASS-428-264	c 27	N82-16238 *	US-PATENT-CLASS-428-411	c 27	N79-14214 *
US-PATENT-CLASS-427-444	c 74	N78-32854 *	US-PATENT-CLASS-428-265	c 27	N82-16238 *	US-PATENT-CLASS-428-412	c 27	N76-16230 *
US-PATENT-CLASS-427-44	c 27	N80-32516 *	US-PATENT-CLASS-428-266	c 27	N82-24339 *	US-PATENT-CLASS-428-412	c 27	N78-31233 *
US-PATENT-CLASS-427-47	c 44	N77-32583 *	US-PATENT-CLASS-428-267	c 27	N82-16238 *	US-PATENT-CLASS-428-412	c 74	N78-32854 *
US-PATENT-CLASS-427-47	c 26	N85-29005 *	US-PATENT-CLASS-428-272	c 27	N82-16238 *	US-PATENT-CLASS-428-412	c 27	N79-18052 *
US-PATENT-CLASS-427-4	c 51	N77-27677 *	US-PATENT-CLASS-428-280	c 27	N79-12221 *	US-PATENT-CLASS-428-412	c 27	N92-10091 *
US-PATENT-CLASS-427-53.1	c 36	N84-22944 *	US-PATENT-CLASS-428-280	c 03	N84-33394 *	US-PATENT-CLASS-428-413	c 27	N76-16230 *
US-PATENT-CLASS-427-53.1	c 37	N84-22957 *	US-PATENT-CLASS-428-282	c 24	N79-25142 *	US-PATENT-CLASS-428-413	c 15	N79-26100 *
US-PATENT-CLASS-427-531	c 44	N82-28780 *	US-PATENT-CLASS-428-283	c 24	N82-29362 *	US-PATENT-CLASS-428-413	c 24	N81-14000 *
US-PATENT-CLASS-427-57	c 71	N84-16940 *	US-PATENT-CLASS-428-283	c 27	N82-29456 *	US-PATENT-CLASS-428-413	c 27	N85-34281 *
US-PATENT-CLASS-427-58	c 33	N84-16456 *	US-PATENT-CLASS-428-284	c 24	N82-29362 *	US-PATENT-CLASS-428-413	c 27	N87-25469 *
US-PATENT-CLASS-427-62	c 76	N92-10681 *	US-PATENT-CLASS-428-285	c 27	N79-12221 *	US-PATENT-CLASS-428-414	c 15	N79-26100 *
US-PATENT-CLASS-427-62	c 76	N92-22040 *	US-PATENT-CLASS-428-285	c 24	N91-31236 *	US-PATENT-CLASS-428-416	c 27	N76-14264 *
US-PATENT-CLASS-427-63	c 76	N92-22040 *	US-PATENT-CLASS-428-286	c 27	N79-12221 *	US-PATENT-CLASS-428-417	c 27	N87-25469 *
US-PATENT-CLASS-427-66	c 74	N92-29158 *	US-PATENT-CLASS-428-286	c 24	N82-29362 *	US-PATENT-CLASS-428-418	c 24	N77-27188 *
US-PATENT-CLASS-427-68	c 74	N92-29158 *	US-PATENT-CLASS-428-287	c 24	N82-29362 *	US-PATENT-CLASS-428-418	c 15	N79-26100 *
US-PATENT-CLASS-427-6	c 71	N84-16940 *	US-PATENT-CLASS-428-287	c 03	N84-33394 *	US-PATENT-CLASS-428-419	c 27	N92-10091 *
US-PATENT-CLASS-427-74	c 44	N82-28780 *	US-PATENT-CLASS-428-288	c 24	N82-29362 *	US-PATENT-CLASS-428-421	c 34	N77-18382 *
US-PATENT-CLASS-427-75	c 44	N78-25527 *	US-PATENT-CLASS-428-288	c 27	N89-29538 *	US-PATENT-CLASS-428-421	c 15	N79-26100 *
US-PATENT-CLASS-427-75	c 44	N79-11468 *	US-PATENT-CLASS-428-289	c 27	N82-29456 *	US-PATENT-CLASS-428-421	c 27	N80-24437 *
US-PATENT-CLASS-427-75	c 44	N79-11472 *	US-PATENT-CLASS-428-290	c 24	N78-15180 *	US-PATENT-CLASS-428-421	c 76	N83-34796 *
US-PATENT-CLASS-427-75	c 33	N84-16456 *	US-PATENT-CLASS-428-290	c 24	N79-25142 *	US-PATENT-CLASS-428-421	c 27	N87-16909 *
US-PATENT-CLASS-427-84	c 44	N79-11472 *	US-PATENT-CLASS-428-290	c 27	N87-28657 *	US-PATENT-CLASS-428-421	c 27	N87-23736 *
US-PATENT-CLASS-427-85	c 44	N85-20530 *	US-PATENT-CLASS-428-290	c 54	N90-25498 *	US-PATENT-CLASS-428-422	c 27	N78-31233 *
US-PATENT-CLASS-427-86	c 44	N76-28635 *	US-PATENT-CLASS-428-294	c 24	N78-17150 *	US-PATENT-CLASS-428-422	c 76	N83-34796 *
US-PATENT-CLASS-427-86	c 44	N78-24609 *	US-PATENT-CLASS-428-294	c 76	N83-34796 *	US-PATENT-CLASS-428-422	c 27	N87-23736 *
US-PATENT-CLASS-427-88	c 44	N79-31752 *	US-PATENT-CLASS-428-301	c 24	N77-27188 *	US-PATENT-CLASS-428-422	c 54	N90-25498 *
US-PATENT-CLASS-427-88	c 44	N83-13579 *	US-PATENT-CLASS-428-302	c 24	N78-17150 *	US-PATENT-CLASS-428-422.5	c 03	N84-33394 *
US-PATENT-CLASS-427-88	c 33	N84-16456 *	US-PATENT-CLASS-428-303	c 27	N76-15310 *	US-PATENT-CLASS-428-425	c 24	N77-28225 *
US-PATENT-CLASS-427-88	c 44	N83-13579 *	US-PATENT-CLASS-428-304.4	c 03	N84-33394 *	US-PATENT-CLASS-428-426	c 74	N78-15879 *
US-PATENT-CLASS-427-90	c 44	N83-13579 *	US-PATENT-CLASS-428-307.7	c 27	N82-29456 *	US-PATENT-CLASS-428-426	c 24	N92-21725 *
US-PATENT-CLASS-427-91	c 44	N83-13579 *	US-PATENT-CLASS-428-307.7	c 24	N92-16026 *	US-PATENT-CLASS-428-427	c 27	N78-32260 *
US-PATENT-CLASS-427-95	c 25	N79-28253 *	US-PATENT-CLASS-428-311.5	c 27	N82-29456 *	US-PATENT-CLASS-428-427	c 44	N83-34448 *
US-PATENT-CLASS-427-96	c 33	N84-16456 *	US-PATENT-CLASS-428-312.6	c 27	N82-29456 *	US-PATENT-CLASS-428-428	c 27	N76-22377 *
US-PATENT-CLASS-428-109	c 27	N76-14264 *	US-PATENT-CLASS-428-312.6	c 44	N83-34448 *	US-PATENT-CLASS-428-428	c 27	N76-23426 *
US-PATENT-CLASS-428-109	c 33	N79-12331 *	US-PATENT-CLASS-428-312	c 27	N78-32260 *	US-PATENT-CLASS-428-428	c 74	N78-15879 *
US-PATENT-CLASS-428-113	c 24	N81-14000 *	US-PATENT-CLASS-428-313	c 24	N78-27180 *	US-PATENT-CLASS-428-428	c 27	N78-32260 *
US-PATENT-CLASS-428-114	c 24	N81-13999 *	US-PATENT-CLASS-428-315.5	c 25	N92-33009 *	US-PATENT-CLASS-428-428	c 44	N83-34448 *
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US-PATENT-CLASS-431-9	c 23	N73-30665 *	US-PATENT-CLASS-436-143	c 35	N90-22025 *	US-PATENT-CLASS-47-58	c 51	N83-17045 *
US-PATENT-CLASS-432-18	c 35	N86-20750 *	US-PATENT-CLASS-436-155	c 25	N86-19413 *	US-PATENT-CLASS-47-58	c 45	N84-12654 *
US-PATENT-CLASS-432-223	c 25	N79-11151 *	US-PATENT-CLASS-436-2	c 35	N85-29213 *	US-PATENT-CLASS-47-62	c 54	N91-31803 *
US-PATENT-CLASS-432-227	c 35	N83-24828 *	US-PATENT-CLASS-436-55	c 35	N90-22025 *	US-PATENT-CLASS-47A-205	c 37	N80-32717 *
US-PATENT-CLASS-432-264	c 33	N81-19389 *	US-PATENT-CLASS-437-105	c 76	N92-22035 *	US-PATENT-CLASS-47A-220	c 37	N87-17034 *
US-PATENT-CLASS-432-29	c 25	N79-11151 *	US-PATENT-CLASS-437-107	c 76	N92-22035 *	US-PATENT-CLASS-48-DIG.8	c 28	N80-10374 *
US-PATENT-CLASS-432-58	c 35	N83-24828 *	US-PATENT-CLASS-437-128	c 76	N88-14836 *	US-PATENT-CLASS-48-10-3	c 28	N80-10374 *
US-PATENT-CLASS-433-118	c 52	N82-29862 *	US-PATENT-CLASS-437-131	c 76	N88-14836 *	US-PATENT-CLASS-48-102A	c 28	N80-10374 *
US-PATENT-CLASS-433-125	c 52	N82-29862 *	US-PATENT-CLASS-437-133	c 76	N92-22035 *	US-PATENT-CLASS-48-107	c 28	N80-10374 *
US-PATENT-CLASS-433-86	c 52	N82-29862 *	US-PATENT-CLASS-437-187	c 76	N91-28014 *	US-PATENT-CLASS-48-116	c 44	N76-18642 *
US-PATENT-CLASS-434-114	c 82	N87-29372 *	US-PATENT-CLASS-437-197	c 76	N91-28014 *	US-PATENT-CLASS-48-116	c 44	N77-10636 *
US-PATENT-CLASS-434-242	c 09	N85-19990 *	US-PATENT-CLASS-437-199	c 76	N91-28014 *	US-PATENT-CLASS-48-117	c 44	N76-18642 *
US-PATENT-CLASS-434-243	c 09	N85-19990 *	US-PATENT-CLASS-437-200	c 24	N92-18561 *	US-PATENT-CLASS-48-117	c 44	N77-10636 *
US-PATENT-CLASS-434-2	c 32	N84-27951 *	US-PATENT-CLASS-437-225	c 72	N91-14813 *	US-PATENT-CLASS-48-117	c 28	N80-10374 *
US-PATENT-CLASS-434-34	c 14	N87-25344 *	US-PATENT-CLASS-437-228	c 72	N91-14813 *	US-PATENT-CLASS-48-197-R	c 25	N86-25428 *
US-PATENT-CLASS-434-35	c 09	N85-19990 *	US-PATENT-CLASS-437-229	c 25	N91-31258 *	US-PATENT-CLASS-48-197R	c 44	N76-29704 *
US-PATENT-CLASS-434-38	c 36	N83-34304 *	US-PATENT-CLASS-437-235	c 72	N91-14813 *	US-PATENT-CLASS-48-197R	c 44	N77-10636 *
US-PATENT-CLASS-434-403	c 31	N83-34073 *	US-PATENT-CLASS-437-238	c 72	N91-14813 *	US-PATENT-CLASS-48-197R	c 28	N91-14495 *
US-PATENT-CLASS-434-42	c 09	N82-24212 *	US-PATENT-CLASS-437-239	c 72	N91-14813 *	US-PATENT-CLASS-48-203	c 28	N91-14495 *
US-PATENT-CLASS-434-43	c 09	N82-24212 *	US-PATENT-CLASS-437-247	c 76	N91-28014 *	US-PATENT-CLASS-48-212	c 44	N77-10636 *
US-PATENT-CLASS-434-49	c 09	N85-19990 *	US-PATENT-CLASS-437-248	c 76	N91-28014 *	US-PATENT-CLASS-48-215	c 44	N76-29700 *
US-PATENT-CLASS-434-4	c 36	N83-34304 *	US-PATENT-CLASS-437-2	c 44	N91-27614 *	US-PATENT-CLASS-48-61	c 44	N77-10636 *
US-PATENT-CLASS-434-4	c 35	N86-32697 *	US-PATENT-CLASS-437-3	c 76	N88-14836 *	US-PATENT-CLASS-48-61	c 28	N80-10374 *
US-PATENT-CLASS-434-59	c 54	N81-27806 *	US-PATENT-CLASS-437-40	c 24	N92-18561 *	US-PATENT-CLASS-48-63	c 44	N76-18642 *
US-PATENT-CLASS-434-88	c 31	N83-34073 *	US-PATENT-CLASS-437-7	c 76	N88-14836 *	US-PATENT-CLASS-48-75	c 44	N76-18642 *
US-PATENT-CLASS-435-160	c 23	N85-35227 *	US-PATENT-CLASS-437-85	c 76	N92-22035 *	US-PATENT-CLASS-48-77	c 28	N91-14495 *
US-PATENT-CLASS-435-240.240	c 51	N92-34232 *	US-PATENT-CLASS-437-8	c 76	N88-14836 *	US-PATENT-CLASS-48-89	c 44	N82-16475 *
US-PATENT-CLASS-435-240.24	c 51	N92-34229 *	US-PATENT-CLASS-437-903	c 76	N90-19884 *	US-PATENT-CLASS-48-95	c 44	N76-18642 *
US-PATENT-CLASS-435-240.24	c 51	N92-34231 *	US-PATENT-CLASS-437-907	c 24	N92-18561 *	US-PATENT-CLASS-48-95	c 44	N76-29700 *
US-PATENT-CLASS-435-240.25	c 51	N92-34229 *	US-PATENT-CLASS-437-930	c 72	N91-14813 *	US-PATENT-CLASS-48-99	c 44	N82-16475 *
US-PATENT-CLASS-435-240.25	c 51	N92-34231 *	US-PATENT-CLASS-437-935	c 24	N92-18561 *	US-PATENT-CLASS-49-DIG.1	c 34	N78-25350 *
US-PATENT-CLASS-435-284	c 51	N91-21700 *	US-PATENT-CLASS-437-936	c 72	N91-14813 *	US-PATENT-CLASS-49-171	c 31	N81-19343 *
US-PATENT-CLASS-435-284	c 51	N92-34232 *	US-PATENT-CLASS-437-936	c 76	N92-22035 *	US-PATENT-CLASS-49-253	c 18	N90-19278 *
US-PATENT-CLASS-435-285	c 51	N91-21700 *	US-PATENT-CLASS-437-942	c 24	N92-18561 *	US-PATENT-CLASS-49-479	c 34	N78-25350 *
US-PATENT-CLASS-435-285	c 51	N91-30667 *	US-PATENT-CLASS-437-945	c 76	N92-22035 *	US-PATENT-CLASS-49-485	c 34	N78-25350 *
US-PATENT-CLASS-435-286	c 51	N91-21700 *	US-PATENT-CLASS-437-969	c 76	N88-14836 *	US-PATENT-CLASS-49-68	c 18	N74-22136 *
US-PATENT-CLASS-435-286	c 51	N91-21701 *	US-PATENT-CLASS-437-973	c 24	N92-18561 *	US-PATENT-CLASS-5-345	c 05	N70-33285 *
US-PATENT-CLASS-435-286	c 51	N91-30667 *	US-PATENT-CLASS-439-271	c 33	N88-14270 *	US-PATENT-CLASS-5-459	c 03	N84-33394 *
US-PATENT-CLASS-435-286	c 35	N92-31790 *	US-PATENT-CLASS-439-578	c 33	N88-14270 *	US-PATENT-CLASS-5-69	c 05	N72-11085 *
US-PATENT-CLASS-435-286	c 51	N92-34229 *	US-PATENT-CLASS-44-1-SR	c 25	N85-35253 *	US-PATENT-CLASS-5-81-R	c 85	N87-21755 *
US-PATENT-CLASS-435-286	c 51	N92-34231 *	US-PATENT-CLASS-44-1R	c 44	N78-31527 *	US-PATENT-CLASS-5-82	c 05	N71-23159 *
US-PATENT-CLASS-435-286	c 51	N92-34232 *	US-PATENT-CLASS-44-1R	c 25	N81-33246 *	US-PATENT-CLASS-501-123	c 27	N92-16122 *
US-PATENT-CLASS-435-289	c 51	N80-27067 *	US-PATENT-CLASS-44-1SR	c 25	N82-29371 *	US-PATENT-CLASS-501-127	c 27	N92-16122 *
US-PATENT-CLASS-435-289	c 51	N83-27569 *	US-PATENT-CLASS-44-1SR	c 25	N83-31743 *	US-PATENT-CLASS-501-39	c 24	N92-16026 *
US-PATENT-CLASS-435-289	c 51	N91-21701 *	US-PATENT-CLASS-44-2	c 44	N78-31527 *	US-PATENT-CLASS-501-54	c 24	N92-16026 *
US-PATENT-CLASS-435-290	c 51	N80-27067 *	US-PATENT-CLASS-44-2	c 25	N81-33246 *	US-PATENT-CLASS-501-88	c 27	N88-29040 *
US-PATENT-CLASS-435-291	c 51	N80-27067 *	US-PATENT-CLASS-44-50	c 27	N81-17261 *	US-PATENT-CLASS-501-88	c 27	N90-21177 *
US-PATENT-CLASS-435-291	c 51	N81-28698 *	US-PATENT-CLASS-44-51	c 25	N79-11152 *	US-PATENT-CLASS-501-91	c 27	N88-29040 *
US-PATENT-CLASS-435-291	c 35	N82-28604 *	US-PATENT-CLASS-44-62	c 27	N81-17261 *	US-PATENT-CLASS-501-91	c 27	N90-21177 *
US-PATENT-CLASS-435-291	c 51	N83-27569 *	US-PATENT-CLASS-44-7R	c 28	N81-14103 *	US-PATENT-CLASS-501-92	c 27	N88-29040 *
US-PATENT-CLASS-435-292	c 51	N91-21700 *	US-PATENT-CLASS-44-77	c 06	N71-23499 *	US-PATENT-CLASS-501-92	c 27	N90-21177 *
US-PATENT-CLASS-435-30	c 51	N91-31755 *	US-PATENT-CLASS-441-83	c 03	N91-31113 *	US-PATENT-CLASS-501-92	c 27	N92-34160 *
US-PATENT-CLASS-435-311	c 51	N80-27067 *	US-PATENT-CLASS-445-35	c 37	N85-33489 *	US-PATENT-CLASS-501-93	c 27	N88-29040 *
US-PATENT-CLASS-435-311	c 51	N91-14703 *	US-PATENT-CLASS-455-102	c 33	N81-15192 *	US-PATENT-CLASS-501-93	c 27	N92-34160 *
US-PATENT-CLASS-435-311	c 51	N91-21700 *	US-PATENT-CLASS-455-102	c 33	N91-31530 *	US-PATENT-CLASS-501-96	c 27	N92-34160 *
US-PATENT-CLASS-435-311	c 51	N91-21701 *	US-PATENT-CLASS-455-115	c 32	N89-14374 *	US-PATENT-CLASS-501-97	c 27	N92-34160 *
US-PATENT-CLASS-435-311	c 35	N92-31790 *	US-PATENT-CLASS-455-117	c 32	N89-14374 *	US-PATENT-CLASS-502-217	c 25	N90-23517 *
US-PATENT-CLASS-435-311	c 51	N92-34232 *	US-PATENT-CLASS-455-137	c 35	N82-15381 *	US-PATENT-CLASS-502-218	c 25	N90-23517 *
US-PATENT-CLASS-435-312	c 51	N91-21700 *	US-PATENT-CLASS-455-139	c 35	N82-15381 *	US-PATENT-CLASS-502-226	c 25	N90-23517 *
US-PATENT-CLASS-435-312	c 51	N91-30667 *	US-PATENT-CLASS-455-1	c 33	N91-31530 *	US-PATENT-CLASS-502-239	c 25	N90-23517 *
US-PATENT-CLASS-435-312	c 35	N92-31790 *	US-PATENT-CLASS-455-202	c 33	N82-29539 *	US-PATENT-CLASS-502-241	c 25	N90-23517 *
US-PATENT-CLASS-435-312	c 51	N92-34231 *	US-PATENT-CLASS-455-202	c 32	N84-27952 *	US-PATENT-CLASS-502-245	c 25	N90-23517 *
US-PATENT-CLASS-435-312	c 51	N92-34232 *	US-PATENT-CLASS-455-208	c 33	N82-29539 *	US-PATENT-CLASS-502-324	c 25	N90-23517 *
US-PATENT-CLASS-435-313	c 51	N91-30667 *	US-PATENT-CLASS-455-208	c 32	N84-27952 *	US-PATENT-CLASS-502-324	c 25	N91-21270 *
US-PATENT-CLASS-435-313	c 51	N92-34232 *	US-PATENT-CLASS-455-234	c 33	N82-29539 *	US-PATENT-CLASS-502-325	c 25	N90-20180 *
US-PATENT-CLASS-435-315	c 51	N91-21701 *	US-PATENT-CLASS-455-260	c 32	N84-27952 *	US-PATENT-CLASS-502-339	c 25	N90-20154 *
US-PATENT-CLASS-435-315	c 51	N92-34232 *	US-PATENT-CLASS-455-265	c 32	N84-27952 *	US-PATENT-CLASS-502-339	c 25	N90-20180 *
US-PATENT-CLASS-435-316	c 51	N80-27067 *	US-PATENT-CLASS-455-278	c 32	N81-29308 *	US-PATENT-CLASS-502-344	c 25	N90-20180 *
US-PATENT-CLASS-435-316	c 51	N91-14703 *	US-PATENT-CLASS-455-306	c 33	N82-29539 *	US-PATENT-CLASS-502-34	c 25	N91-21270 *
US-PATENT-CLASS-435-316	c 51	N91-21700 *	US-PATENT-CLASS-455-51	c 32	N81-14186 *	US-PATENT-CLASS-502-352	c 25	N90-20154 *
US-PATENT-CLASS-435-316	c 51	N91-21701 *	US-PATENT-CLASS-455-605	c 74	N91-27957 *	US-PATENT-CLASS-502-38	c 25	N90-20154 *
US-PATENT-CLASS-435-32	c 51	N80-27067 *	US-PATENT-CLASS-455-608	c 32	N87-21207 *	US-PATENT-CLASS-502-53	c 25	N90-20154 *
US-PATENT-CLASS-435-34	c 51	N80-16714 *	US-PATENT-CLASS-455-60	c 35	N82-15381 *	US-PATENT-CLASS-502-73	c 25	N92-10073 *
US-PATENT-CLASS-435-34	c 51	N80-27067 *	US-PATENT-CLASS-455-610	c 74	N82-19029 *	US-PATENT-CLASS-505-1	c 33	N91-31529 *
US-PATENT-CLASS-435-34	c 51	N81-28698 *	US-PATENT-CLASS-455-612	c 74	N82-19029 *	US-PATENT-CLASS-505-1	c 76	N92-10681 *
US-PATENT-CLASS-435-34	c 35	N82-28604 *	US-PATENT-CLASS-455-612	c 74	N83-29032 *	US-PATENT-CLASS-505-1	c 14	N92-15091 *
US-PATENT-CLASS-435-34	c 51	N83-27569 *	US-PATENT-CLASS-455-615	c 74	N82-19029 *	US-PATENT-CLASS-505-1	c 74	N92-28571 *

US-PATENT-CLASS-505-701	c 33	N91-31529 *	US-PATENT-CLASS-52-705	c 37	N76-19437 *	US-PATENT-CLASS-525-119	c 27	N86-27451 *
US-PATENT-CLASS-505-702	c 33	N91-31529 *	US-PATENT-CLASS-52-71	c 18	N75-27040 *	US-PATENT-CLASS-525-122	c 27	N86-27451 *
US-PATENT-CLASS-505-703	c 33	N91-31529 *	US-PATENT-CLASS-52-726	c 39	N76-31562 *	US-PATENT-CLASS-525-181	c 27	N83-28240 *
US-PATENT-CLASS-505-703	c 74	N92-28571 *	US-PATENT-CLASS-52-726	c 31	N81-25258 *	US-PATENT-CLASS-525-181	c 27	N85-21349 *
US-PATENT-CLASS-505-704	c 33	N91-31529 *	US-PATENT-CLASS-52-743	c 37	N81-14317 *	US-PATENT-CLASS-525-182	c 27	N85-21349 *
US-PATENT-CLASS-505-728	c 76	N92-10681 *	US-PATENT-CLASS-52-745	c 39	N76-31562 *	US-PATENT-CLASS-525-182	c 27	N87-22845 *
US-PATENT-CLASS-505-848	c 74	N92-28571 *	US-PATENT-CLASS-52-745	c 31	N81-27323 *	US-PATENT-CLASS-525-183	c 27	N83-28240 *
US-PATENT-CLASS-505-862	c 76	N92-22041 *	US-PATENT-CLASS-52-745	c 37	N85-30335 *	US-PATENT-CLASS-525-183	c 27	N85-21349 *
US-PATENT-CLASS-505-866	c 74	N92-28571 *	US-PATENT-CLASS-52-749	c 39	N76-31562 *	US-PATENT-CLASS-525-184	c 27	N83-28240 *
US-PATENT-CLASS-505-871	c 76	N92-22041 *	US-PATENT-CLASS-52-758F	c 37	N76-19437 *	US-PATENT-CLASS-525-184	c 27	N85-21349 *
US-PATENT-CLASS-505-876	c 37	N92-29099 *	US-PATENT-CLASS-52-806	c 24	N84-11214 *	US-PATENT-CLASS-525-186	c 27	N85-34281 *
US-PATENT-CLASS-51-170	c 15	N71-26134 *	US-PATENT-CLASS-52-808	c 24	N84-11214 *	US-PATENT-CLASS-525-186	c 27	N86-20560 *
US-PATENT-CLASS-51-216	c 15	N72-20444 *	US-PATENT-CLASS-52-80	c 18	N72-25540 *	US-PATENT-CLASS-525-229	c 27	N85-34281 *
US-PATENT-CLASS-51-225	c 37	N74-27905 *	US-PATENT-CLASS-52-80	c 18	N72-25541 *	US-PATENT-CLASS-525-26	c 27	N85-29043 *
US-PATENT-CLASS-51-234	c 37	N74-27905 *	US-PATENT-CLASS-52-80	c 31	N73-32749 *	US-PATENT-CLASS-525-275	c 27	N92-22044 *
US-PATENT-CLASS-51-235	c 37	N78-17383 *	US-PATENT-CLASS-52-814	c 18	N84-33450 *	US-PATENT-CLASS-525-282	c 27	N84-14322 *
US-PATENT-CLASS-51-235	c 76	N80-18951 *	US-PATENT-CLASS-52-814	c 31	N87-16918 *	US-PATENT-CLASS-525-282	c 27	N87-15304 *
US-PATENT-CLASS-51-277	c 74	N80-24149 *	US-PATENT-CLASS-52-814	c 31	N89-12786 *	US-PATENT-CLASS-525-287	c 27	N84-14322 *
US-PATENT-CLASS-51-281-R	c 31	N87-25491 *	US-PATENT-CLASS-52-81	c 37	N82-32732 *	US-PATENT-CLASS-525-326	c 27	N80-24438 *
US-PATENT-CLASS-51-283R	c 74	N80-24149 *	US-PATENT-CLASS-52-821	c 31	N89-12786 *	US-PATENT-CLASS-525-336	c 27	N80-24438 *
US-PATENT-CLASS-51-283	c 46	N74-23069 *	US-PATENT-CLASS-521-109.1	c 27	N92-16123 *	US-PATENT-CLASS-525-340	c 27	N80-24438 *
US-PATENT-CLASS-51-320	c 15	N72-20444 *	US-PATENT-CLASS-521-124	c 25	N80-16116 *	US-PATENT-CLASS-525-36	c 27	N87-22848 *
US-PATENT-CLASS-51-323	c 15	N72-20444 *	US-PATENT-CLASS-521-125	c 25	N80-16116 *	US-PATENT-CLASS-525-374	c 27	N80-24438 *
US-PATENT-CLASS-51-57	c 15	N71-22705 *	US-PATENT-CLASS-521-127	c 25	N80-16116 *	US-PATENT-CLASS-525-375	c 27	N80-24438 *
US-PATENT-CLASS-51-73R	c 37	N85-21650 *	US-PATENT-CLASS-521-135	c 27	N92-16123 *	US-PATENT-CLASS-525-384	c 28	N81-15119 *
US-PATENT-CLASS-51-97R	c 37	N74-27905 *	US-PATENT-CLASS-521-136	c 27	N92-16123 *	US-PATENT-CLASS-525-389	c 27	N84-22750 *
US-PATENT-CLASS-52-DIG.10	c 18	N72-25540 *	US-PATENT-CLASS-521-141	c 51	N84-28361 *	US-PATENT-CLASS-525-397	c 27	N88-18725 *
US-PATENT-CLASS-52-DIG.10	c 18	N72-25541 *	US-PATENT-CLASS-521-142	c 51	N84-28361 *	US-PATENT-CLASS-525-417	c 27	N84-22745 *
US-PATENT-CLASS-52-108	c 15	N72-18477 *	US-PATENT-CLASS-521-145	c 27	N90-16949 *	US-PATENT-CLASS-525-420	c 27	N85-20123 *
US-PATENT-CLASS-52-108	c 31	N81-27323 *	US-PATENT-CLASS-521-146	c 25	N80-23383 *	US-PATENT-CLASS-525-420	c 27	N92-29157 *
US-PATENT-CLASS-52-108	c 31	N87-25492 *	US-PATENT-CLASS-521-149	c 51	N84-28361 *	US-PATENT-CLASS-525-420	c 27	N92-31792 *
US-PATENT-CLASS-52-109	c 31	N73-32749 *	US-PATENT-CLASS-521-157	c 25	N80-16116 *	US-PATENT-CLASS-525-421	c 27	N92-22044 *
US-PATENT-CLASS-52-110	c 37	N86-25791 *	US-PATENT-CLASS-521-178	c 27	N90-16949 *	US-PATENT-CLASS-525-422	c 27	N91-31307 *
US-PATENT-CLASS-52-111	c 31	N81-27324 *	US-PATENT-CLASS-521-178	c 27	N92-16123 *	US-PATENT-CLASS-525-422	c 27	N92-21711 *
US-PATENT-CLASS-52-111	c 37	N86-25789 *	US-PATENT-CLASS-521-189	c 27	N90-16949 *	US-PATENT-CLASS-525-422	c 27	N92-22044 *
US-PATENT-CLASS-52-111	c 37	N86-32737 *	US-PATENT-CLASS-521-27	c 27	N81-14076 *	US-PATENT-CLASS-525-423	c 24	N86-19380 *
US-PATENT-CLASS-52-117	c 44	N77-32582 *	US-PATENT-CLASS-521-32	c 27	N81-14076 *	US-PATENT-CLASS-525-425	c 33	N88-23941 *
US-PATENT-CLASS-52-126.5	c 31	N87-16918 *	US-PATENT-CLASS-521-54	c 27	N92-16123 *	US-PATENT-CLASS-525-426	c 27	N80-26446 *
US-PATENT-CLASS-52-127.7	c 37	N85-30335 *	US-PATENT-CLASS-521-55	c 25	N80-23383 *	US-PATENT-CLASS-525-426	c 27	N84-22746 *
US-PATENT-CLASS-52-127	c 15	N71-21531 *	US-PATENT-CLASS-521-62	c 27	N81-14076 *	US-PATENT-CLASS-525-426	c 27	N87-28657 *
US-PATENT-CLASS-52-144	c 71	N91-27913 *	US-PATENT-CLASS-521-82	c 27	N90-16949 *	US-PATENT-CLASS-525-432	c 27	N86-19456 *
US-PATENT-CLASS-52-169	c 15	N72-25454 *	US-PATENT-CLASS-521-84.1	c 27	N92-16123 *	US-PATENT-CLASS-525-432	c 27	N87-28657 *
US-PATENT-CLASS-52-171	c 11	N73-12265 *	US-PATENT-CLASS-521-907	c 27	N92-16123 *	US-PATENT-CLASS-525-432	c 24	N91-25200 *
US-PATENT-CLASS-52-171	c 74	N85-29750 *	US-PATENT-CLASS-521-918	c 25	N80-23383 *	US-PATENT-CLASS-525-432	c 27	N92-21711 *
US-PATENT-CLASS-52-173R	c 44	N77-31601 *	US-PATENT-CLASS-521-97	c 27	N90-16949 *	US-PATENT-CLASS-525-432	c 27	N92-29157 *
US-PATENT-CLASS-52-173	c 15	N72-25454 *	US-PATENT-CLASS-521-98	c 27	N90-16949 *	US-PATENT-CLASS-525-434	c 27	N92-31792 *
US-PATENT-CLASS-52-1	c 15	N72-28496 *	US-PATENT-CLASS-522-162	c 27	N90-21198 *	US-PATENT-CLASS-525-436	c 27	N86-19456 *
US-PATENT-CLASS-52-232	c 37	N81-14317 *	US-PATENT-CLASS-522-165	c 27	N90-21198 *	US-PATENT-CLASS-525-436	c 27	N87-28657 *
US-PATENT-CLASS-52-236	c 39	N76-31562 *	US-PATENT-CLASS-522-135	c 27	N85-29044 *	US-PATENT-CLASS-525-436	c 27	N91-15402 *
US-PATENT-CLASS-52-249	c 33	N71-25351 *	US-PATENT-CLASS-523-205	c 27	N83-19900 *	US-PATENT-CLASS-525-436	c 27	N92-31792 *
US-PATENT-CLASS-52-272	c 31	N71-24035 *	US-PATENT-CLASS-523-433	c 24	N86-19380 *	US-PATENT-CLASS-525-471	c 27	N91-31307 *
US-PATENT-CLASS-52-284	c 32	N73-13921 *	US-PATENT-CLASS-523-434	c 27	N86-27451 *	US-PATENT-CLASS-525-474	c 27	N83-28240 *
US-PATENT-CLASS-52-2	c 32	N71-21045 *	US-PATENT-CLASS-523-435	c 24	N84-11213 *	US-PATENT-CLASS-525-474	c 27	N85-21349 *
US-PATENT-CLASS-52-2	c 44	N77-32583 *	US-PATENT-CLASS-523-440	c 27	N83-34043 *	US-PATENT-CLASS-525-47	c 27	N85-29043 *
US-PATENT-CLASS-52-309.15	c 31	N87-16918 *	US-PATENT-CLASS-523-443	c 27	N83-34043 *	US-PATENT-CLASS-525-484	c 24	N84-34571 *
US-PATENT-CLASS-52-309.1	c 31	N81-25258 *	US-PATENT-CLASS-523-445	c 24	N86-19380 *	US-PATENT-CLASS-525-4	c 25	N80-23383 *
US-PATENT-CLASS-52-391	c 31	N87-16918 *	US-PATENT-CLASS-523-445	c 27	N86-27451 *	US-PATENT-CLASS-525-527	c 24	N86-19380 *
US-PATENT-CLASS-52-3	c 31	N71-16080 *	US-PATENT-CLASS-523-454	c 24	N84-34571 *	US-PATENT-CLASS-525-532	c 23	N85-28973 *
US-PATENT-CLASS-52-404	c 33	N71-25351 *	US-PATENT-CLASS-523-454	c 27	N85-34282 *	US-PATENT-CLASS-525-534	c 27	N84-22747 *
US-PATENT-CLASS-52-404	c 16	N84-22601 *	US-PATENT-CLASS-523-456	c 24	N84-11213 *	US-PATENT-CLASS-525-534	c 23	N85-28973 *
US-PATENT-CLASS-52-506	c 16	N84-22601 *	US-PATENT-CLASS-523-458	c 24	N84-34571 *	US-PATENT-CLASS-525-534	c 27	N86-27450 *
US-PATENT-CLASS-52-506	c 37	N85-30335 *	US-PATENT-CLASS-523-458	c 27	N85-34282 *	US-PATENT-CLASS-525-535	c 27	N84-22747 *
US-PATENT-CLASS-52-511	c 31	N87-16918 *	US-PATENT-CLASS-523-468	c 27	N86-27451 *	US-PATENT-CLASS-525-535	c 27	N86-27450 *
US-PATENT-CLASS-52-51	c 44	N77-31601 *	US-PATENT-CLASS-523-66468	c 24	N86-19380 *	US-PATENT-CLASS-525-536	c 27	N84-22747 *
US-PATENT-CLASS-52-573	c 15	N72-28496 *	US-PATENT-CLASS-524-104	c 27	N83-28240 *	US-PATENT-CLASS-525-56	c 23	N81-29160 *
US-PATENT-CLASS-52-573	c 18	N89-28554 *	US-PATENT-CLASS-524-171	c 27	N84-22747 *	US-PATENT-CLASS-525-61	c 27	N81-24257 *
US-PATENT-CLASS-52-594	c 15	N72-25454 *	US-PATENT-CLASS-524-173	c 27	N83-28240 *	US-PATENT-CLASS-525-61	c 23	N81-29160 *
US-PATENT-CLASS-52-594	c 32	N73-13921 *	US-PATENT-CLASS-524-233	c 27	N83-28240 *	US-PATENT-CLASS-525-61	c 25	N83-13188 *
US-PATENT-CLASS-52-632	c 31	N81-27324 *	US-PATENT-CLASS-524-233	c 27	N90-16950 *	US-PATENT-CLASS-525-903	c 27	N87-28657 *
US-PATENT-CLASS-52-632	c 31	N86-19479 *	US-PATENT-CLASS-524-366	c 27	N90-16950 *	US-PATENT-CLASS-525-903	c 27	N92-21711 *
US-PATENT-CLASS-52-632	c 37	N86-32737 *	US-PATENT-CLASS-524-371	c 27	N84-14324 *	US-PATENT-CLASS-525-905	c 27	N88-18725 *
US-PATENT-CLASS-52-632	c 31	N87-25492 *	US-PATENT-CLASS-524-378	c 27	N90-16950 *	US-PATENT-CLASS-526-13	c 27	N78-32256 *
US-PATENT-CLASS-52-637	c 39	N76-31562 *	US-PATENT-CLASS-524-388	c 27	N85-29044 *	US-PATENT-CLASS-526-193	c 27	N78-15276 *
US-PATENT-CLASS-52-637	c 31	N86-19479 *	US-PATENT-CLASS-524-404	c 27	N87-22845 *	US-PATENT-CLASS-526-1	c 27	N76-24405 *
US-PATENT-CLASS-52-645	c 31	N81-25259 *	US-PATENT-CLASS-524-436	c 27	N83-19900 *	US-PATENT-CLASS-526-201	c 25	N81-19242 *
US-PATENT-CLASS-52-645	c 37	N86-25789 *	US-PATENT-CLASS-524-437	c 27	N83-19900 *	US-PATENT-CLASS-526-204	c 25	N85-30039 *
US-PATENT-CLASS-52-645	c 37	N86-32737 *	US-PATENT-CLASS-524-494	c 27	N84-14322 *	US-PATENT-CLASS-526-217	c 27	N85-21350 *
US-PATENT-CLASS-52-646	c 31	N73-32749 *	US-PATENT-CLASS-524-495	c 27	N92-21711 *	US-PATENT-CLASS-526-217	c 25	N85-30039 *
US-PATENT-CLASS-52-646	c 31	N86-19479 *	US-PATENT-CLASS-524-496	c 27	N84-14322 *	US-PATENT-CLASS-526-225	c 27	N78-15276 *
US-PATENT-CLASS-52-646	c 37	N86-32737 *	US-PATENT-CLASS-524-500	c 27	N84-14322 *	US-PATENT-CLASS-526-23	c 27	N78-32256 *
US-PATENT-CLASS-52-646	c 31	N87-25492 *	US-PATENT-CLASS-524-503	c 27	N83-19900 *	US-PATENT-CLASS-526-248	c 27	N92-22044 *
US-PATENT-CLASS-52-646	c 18	N88-28958 *	US-PATENT-CLASS-524-530	c 27	N84-14322 *	US-PATENT-CLASS-526-249	c 27	N92-22044 *
US-PATENT-CLASS-52-646	c 37	N88-29180 *	US-PATENT-CLASS-524-548	c 27	N86-20560 *	US-PATENT-CLASS-526-255	c 27	N76-24405 *
US-PATENT-CLASS-52-646	c 18	N91-21221 *	US-PATENT-CLASS-524-548	c 27	N87-22845 *	US-PATENT-CLASS-526-258	c 27	N92-16121 *
US-PATENT-CLASS-52-646	c 18	N91-27199 *	US-PATENT-CLASS-524-564	c 27	N83-19900 *	US-PATENT-CLASS-526-259	c 27	N83-34040 *
US-PATENT-CLASS-52-648	c 11	N72-25287 *	US-PATENT-CLASS-524-567	c 27	N85-29044 *	US-PATENT-CLASS-526-261	c 27	N80-24438 *
US-PATENT-CLASS-52-648	c 39	N76-31562 *	US-PATENT-CLASS-524-600	c 27	N90-16950 *	US-PATENT-CLASS-526-262	c 27	N81-27272 *
US-PATENT-CLASS-52-648	c 31	N81-25258 *	US-PATENT-CLASS-524-600	c 27	N91-15402 *	US-PATENT-CLASS-526-262	c 27	N84-22745 *
US-PATENT-CLASS-52-648	c 31	N86-19479 *	US-PATENT-CLASS-524-607	c 27	N90-16950 *	US-PATENT-CLASS-526-262	c 27	N85-27885 *
US-PATENT-CLASS-52-648	c 37	N86-25789 *	US-PATENT-CLASS-524-726	c 27	N83-28240 *	US-PATENT-CLASS-526-262	c 27	N85-21349 *
US-PATENT-CLASS-52-648	c 18	N88-28958 *	US-PATENT-CLASS-524-786	c 27	N83-19900 *	US-PATENT-CLASS-526-262	c 27	N85-21350 *
US-PATENT-CLASS-52-648	c 37	N88-29180 *	US-PATENT-CLASS-525-107	c 27	N85-34281 *	US-PATENT-CLASS-526-262	c 27	N85-21351 *
US-PATENT-CLASS-52-648	c 18	N89-28554 *	US-PATENT-CLASS-525-108	c 27	N86-27451 *	US-PATENT-CLASS-526-262	c 27	N85-21352 *
US-PATENT-CLASS-52-64	c 31	N73-32749 *	US-PATENT-CLASS-525-113	c 27	N85-34281 *	US-PATENT-CLASS-526-262	c 25	N85-28982 *
US-PATENT-CLASS-52-651	c 39	N76-31562 *	US-PATENT-CLASS-525-115	c 27	N86-27451 *	US-PATENT-CLASS-526-262	c 25	N85-30039 *
US-PATENT-CLASS-52-655	c 11	N72-25287 *	US-PATENT-CLASS-525-119	c 27	N85-34281 *	US-PATENT-CLASS-526-262	c 27	N86-20560 *

US-PATENT-CLASS-526-262	c 24	N86-21590 *	US-PATENT-CLASS-528-172	c 25	N92-16043 *	US-PATENT-CLASS-528-233	c 27	N91-27372 *
US-PATENT-CLASS-526-262	c 27	N87-22845 *	US-PATENT-CLASS-528-172	c 27	N92-33008 *	US-PATENT-CLASS-528-239	c 27	N85-20124 *
US-PATENT-CLASS-526-262	c 23	N90-21118 *	US-PATENT-CLASS-528-172	c 27	N92-33015 *	US-PATENT-CLASS-528-241	c 27	N85-20124 *
US-PATENT-CLASS-526-262	c 23	N91-14418 *	US-PATENT-CLASS-528-173	c 27	N82-11206 *	US-PATENT-CLASS-528-258	c 27	N85-20124 *
US-PATENT-CLASS-526-262	c 27	N92-22044 *	US-PATENT-CLASS-528-173	c 27	N91-15403 *	US-PATENT-CLASS-528-25	c 27	N84-22747 *
US-PATENT-CLASS-526-265	c 27	N86-20560 *	US-PATENT-CLASS-528-173	c 25	N92-16043 *	US-PATENT-CLASS-528-26	c 27	N84-22747 *
US-PATENT-CLASS-526-265	c 24	N86-28131 *	US-PATENT-CLASS-528-173	c 27	N92-33014 *	US-PATENT-CLASS-528-26	c 27	N87-14516 *
US-PATENT-CLASS-526-274	c 27	N85-21347 *	US-PATENT-CLASS-528-174	c 27	N86-27450 *	US-PATENT-CLASS-528-271	c 27	N84-27884 *
US-PATENT-CLASS-526-275	c 27	N78-32256 *	US-PATENT-CLASS-528-176	c 27	N86-27450 *	US-PATENT-CLASS-528-279	c 27	N85-20124 *
US-PATENT-CLASS-526-275	c 27	N80-24438 *	US-PATENT-CLASS-528-176	c 27	N87-22848 *	US-PATENT-CLASS-528-288	c 27	N85-29043 *
US-PATENT-CLASS-526-276	c 27	N78-32256 *	US-PATENT-CLASS-528-176	c 27	N90-21198 *	US-PATENT-CLASS-528-289	c 27	N85-29043 *
US-PATENT-CLASS-526-276	c 27	N80-24438 *	US-PATENT-CLASS-528-176	c 27	N91-15403 *	US-PATENT-CLASS-528-303	c 27	N85-29043 *
US-PATENT-CLASS-526-278	c 27	N78-32256 *	US-PATENT-CLASS-528-179	c 27	N86-19456 *	US-PATENT-CLASS-528-304	c 27	N85-29043 *
US-PATENT-CLASS-526-278	c 27	N80-24438 *	US-PATENT-CLASS-528-179	c 25	N92-16043 *	US-PATENT-CLASS-528-308	c 27	N90-21198 *
US-PATENT-CLASS-526-27	c 27	N78-32256 *	US-PATENT-CLASS-528-179	c 27	N92-29157 *	US-PATENT-CLASS-528-30	c 27	N88-29040 *
US-PATENT-CLASS-526-285	c 27	N83-34040 *	US-PATENT-CLASS-528-179	c 27	N92-33014 *	US-PATENT-CLASS-528-30	c 27	N90-21198 *
US-PATENT-CLASS-526-285	c 27	N86-27450 *	US-PATENT-CLASS-528-180	c 27	N82-11206 *	US-PATENT-CLASS-528-310	c 27	N81-17272 *
US-PATENT-CLASS-526-328	c 27	N85-29043 *	US-PATENT-CLASS-528-182	c 27	N86-19456 *	US-PATENT-CLASS-528-310	c 27	N81-24256 *
US-PATENT-CLASS-526-329.2	c 27	N85-29043 *	US-PATENT-CLASS-528-182	c 27	N92-33014 *	US-PATENT-CLASS-528-310	c 27	N82-24338 *
US-PATENT-CLASS-526-49	c 27	N78-32256 *	US-PATENT-CLASS-528-183	c 27	N84-22746 *	US-PATENT-CLASS-528-310	c 27	N84-27884 *
US-PATENT-CLASS-526-50	c 27	N78-32256 *	US-PATENT-CLASS-528-183	c 27	N85-20123 *	US-PATENT-CLASS-528-310	c 23	N86-19376 *
US-PATENT-CLASS-526-60	c 27	N90-23544 *	US-PATENT-CLASS-528-183	c 27	N86-29039 *	US-PATENT-CLASS-528-314	c 25	N85-30039 *
US-PATENT-CLASS-526-7	c 44	N79-25481 *	US-PATENT-CLASS-528-184	c 27	N87-22848 *	US-PATENT-CLASS-528-315	c 27	N85-21350 *
US-PATENT-CLASS-526-88	c 25	N81-19242 *	US-PATENT-CLASS-528-185	c 27	N84-22749 *	US-PATENT-CLASS-528-321	c 27	N85-21347 *
US-PATENT-CLASS-526-914	c 28	N81-15119 *	US-PATENT-CLASS-528-185	c 27	N85-21348 *	US-PATENT-CLASS-528-321	c 24	N86-25416 *
US-PATENT-CLASS-526-9	c 44	N79-25481 *	US-PATENT-CLASS-528-185	c 27	N86-19456 *	US-PATENT-CLASS-528-321	c 27	N86-31726 *
US-PATENT-CLASS-528-102	c 24	N86-19380 *	US-PATENT-CLASS-528-185	c 27	N90-23546 *	US-PATENT-CLASS-528-321	c 27	N87-16909 *
US-PATENT-CLASS-528-103	c 24	N86-19380 *	US-PATENT-CLASS-528-185	c 23	N92-29141 *	US-PATENT-CLASS-528-321	c 27	N89-16042 *
US-PATENT-CLASS-528-106	c 27	N85-34282 *	US-PATENT-CLASS-528-185	c 27	N92-29157 *	US-PATENT-CLASS-528-322	c 27	N81-17260 *
US-PATENT-CLASS-528-108	c 23	N86-32525 *	US-PATENT-CLASS-528-185	c 27	N92-33008 *	US-PATENT-CLASS-528-322	c 27	N84-22745 *
US-PATENT-CLASS-528-108	c 27	N87-25469 *	US-PATENT-CLASS-528-185	c 27	N92-33015 *	US-PATENT-CLASS-528-322	c 27	N84-27885 *
US-PATENT-CLASS-528-10	c 27	N88-29040 *	US-PATENT-CLASS-528-186	c 27	N85-21348 *	US-PATENT-CLASS-528-322	c 27	N85-21347 *
US-PATENT-CLASS-528-10	c 27	N90-21177 *	US-PATENT-CLASS-528-187	c 27	N85-21348 *	US-PATENT-CLASS-528-322	c 27	N85-21350 *
US-PATENT-CLASS-528-110	c 24	N84-11213 *	US-PATENT-CLASS-528-188	c 23	N90-19300 *	US-PATENT-CLASS-528-322	c 27	N85-21351 *
US-PATENT-CLASS-528-113	c 27	N85-34281 *	US-PATENT-CLASS-528-188	c 27	N90-23546 *	US-PATENT-CLASS-528-322	c 27	N85-21352 *
US-PATENT-CLASS-528-117	c 27	N85-34281 *	US-PATENT-CLASS-528-188	c 27	N92-33014 *	US-PATENT-CLASS-528-322	c 25	N85-28982 *
US-PATENT-CLASS-528-118	c 27	N81-17260 *	US-PATENT-CLASS-528-192	c 27	N85-20123 *	US-PATENT-CLASS-528-322	c 25	N85-30039 *
US-PATENT-CLASS-528-124	c 23	N86-32525 *	US-PATENT-CLASS-528-192	c 27	N87-22848 *	US-PATENT-CLASS-528-322	c 27	N86-19457 *
US-PATENT-CLASS-528-125	c 27	N83-34040 *	US-PATENT-CLASS-528-193	c 27	N87-22848 *	US-PATENT-CLASS-528-322	c 24	N86-25416 *
US-PATENT-CLASS-528-125	c 27	N84-22749 *	US-PATENT-CLASS-528-207	c 27	N80-16158 *	US-PATENT-CLASS-528-322	c 27	N86-31726 *
US-PATENT-CLASS-528-125	c 27	N85-21348 *	US-PATENT-CLASS-528-207	c 27	N82-11206 *	US-PATENT-CLASS-528-322	c 27	N87-16909 *
US-PATENT-CLASS-528-125	c 27	N89-14337 *	US-PATENT-CLASS-528-208	c 27	N80-16158 *	US-PATENT-CLASS-528-322	c 27	N87-21112 *
US-PATENT-CLASS-528-125	c 27	N90-16950 *	US-PATENT-CLASS-528-208	c 27	N82-11206 *	US-PATENT-CLASS-528-322	c 27	N89-16042 *
US-PATENT-CLASS-528-125	c 27	N90-23545 *	US-PATENT-CLASS-528-210	c 27	N82-11206 *	US-PATENT-CLASS-528-322	c 23	N90-21118 *
US-PATENT-CLASS-528-125	c 27	N90-23546 *	US-PATENT-CLASS-528-211	c 27	N82-11206 *	US-PATENT-CLASS-528-322	c 23	N91-14418 *
US-PATENT-CLASS-528-125	c 27	N91-15403 *	US-PATENT-CLASS-528-212	c 27	N90-23545 *	US-PATENT-CLASS-528-327	c 27	N84-27884 *
US-PATENT-CLASS-528-125	c 23	N91-27220 *	US-PATENT-CLASS-528-219	c 23	N91-27220 *	US-PATENT-CLASS-528-327	c 27	N86-19455 *
US-PATENT-CLASS-528-125	c 25	N92-16043 *	US-PATENT-CLASS-528-220	c 27	N83-34040 *	US-PATENT-CLASS-528-327	c 27	N87-21112 *
US-PATENT-CLASS-528-125	c 27	N92-28751 *	US-PATENT-CLASS-528-220	c 27	N84-22746 *	US-PATENT-CLASS-528-328	c 27	N82-24338 *
US-PATENT-CLASS-528-125	c 27	N92-33008 *	US-PATENT-CLASS-528-220	c 27	N85-20123 *	US-PATENT-CLASS-528-331	c 27	N79-28307 *
US-PATENT-CLASS-528-125	c 27	N92-33014 *	US-PATENT-CLASS-528-220	c 24	N86-25416 *	US-PATENT-CLASS-528-331	c 27	N84-27884 *
US-PATENT-CLASS-528-125	c 27	N92-33015 *	US-PATENT-CLASS-528-220	c 27	N86-31726 *	US-PATENT-CLASS-528-331	c 27	N87-21112 *
US-PATENT-CLASS-528-126	c 27	N79-28307 *	US-PATENT-CLASS-528-220	c 27	N87-21112 *	US-PATENT-CLASS-528-336	c 27	N79-28307 *
US-PATENT-CLASS-528-126	c 27	N82-11206 *	US-PATENT-CLASS-528-220	c 27	N89-16042 *	US-PATENT-CLASS-528-336	c 27	N85-20123 *
US-PATENT-CLASS-528-126	c 27	N83-34040 *	US-PATENT-CLASS-528-220	c 23	N91-27220 *	US-PATENT-CLASS-528-336	c 27	N85-21350 *
US-PATENT-CLASS-528-126	c 27	N85-21348 *	US-PATENT-CLASS-528-220	c 27	N91-27372 *	US-PATENT-CLASS-528-336	c 27	N86-32568 *
US-PATENT-CLASS-528-126	c 27	N90-23545 *	US-PATENT-CLASS-528-220	c 27	N92-28751 *	US-PATENT-CLASS-528-337	c 27	N79-28307 *
US-PATENT-CLASS-528-126	c 27	N90-23546 *	US-PATENT-CLASS-528-221	c 27	N79-28307 *	US-PATENT-CLASS-528-337	c 23	N86-32525 *
US-PATENT-CLASS-528-126	c 27	N91-15403 *	US-PATENT-CLASS-528-222	c 27	N81-29229 *	US-PATENT-CLASS-528-337	c 27	N86-32568 *
US-PATENT-CLASS-528-126	c 23	N91-27220 *	US-PATENT-CLASS-528-222	c 27	N83-34040 *	US-PATENT-CLASS-528-338	c 27	N79-28307 *
US-PATENT-CLASS-528-126	c 25	N92-16043 *	US-PATENT-CLASS-528-222	c 27	N83-34041 *	US-PATENT-CLASS-528-340	c 27	N86-32568 *
US-PATENT-CLASS-528-126	c 27	N92-28751 *	US-PATENT-CLASS-528-222	c 27	N86-29039 *	US-PATENT-CLASS-528-341	c 27	N86-29039 *
US-PATENT-CLASS-528-126	c 27	N92-33014 *	US-PATENT-CLASS-528-222	c 27	N91-27372 *	US-PATENT-CLASS-528-342	c 27	N79-28307 *
US-PATENT-CLASS-528-127	c 27	N79-28307 *	US-PATENT-CLASS-528-223	c 27	N79-28307 *	US-PATENT-CLASS-528-342	c 27	N84-27885 *
US-PATENT-CLASS-528-127	c 27	N92-28751 *	US-PATENT-CLASS-528-224	c 27	N92-28751 *	US-PATENT-CLASS-528-342	c 27	N85-21350 *
US-PATENT-CLASS-528-128	c 27	N79-28307 *	US-PATENT-CLASS-528-225	c 27	N79-28307 *	US-PATENT-CLASS-528-342	c 27	N85-21351 *
US-PATENT-CLASS-528-128	c 27	N83-34040 *	US-PATENT-CLASS-528-225	c 27	N82-11206 *	US-PATENT-CLASS-528-342	c 27	N85-21352 *
US-PATENT-CLASS-528-128	c 27	N84-22749 *	US-PATENT-CLASS-528-225	c 27	N91-27372 *	US-PATENT-CLASS-528-342	c 25	N85-28982 *
US-PATENT-CLASS-528-128	c 27	N85-21348 *	US-PATENT-CLASS-528-226	c 27	N83-34041 *	US-PATENT-CLASS-528-342	c 27	N86-19457 *
US-PATENT-CLASS-528-128	c 27	N89-14337 *	US-PATENT-CLASS-528-226	c 27	N85-20124 *	US-PATENT-CLASS-528-345	c 27	N84-22746 *
US-PATENT-CLASS-528-128	c 27	N90-23545 *	US-PATENT-CLASS-528-226	c 27	N85-21348 *	US-PATENT-CLASS-528-345	c 27	N85-20123 *
US-PATENT-CLASS-528-128	c 27	N90-23546 *	US-PATENT-CLASS-528-227	c 27	N79-28307 *	US-PATENT-CLASS-528-345	c 27	N86-19457 *
US-PATENT-CLASS-528-128	c 23	N91-27220 *	US-PATENT-CLASS-528-227	c 27	N91-27372 *	US-PATENT-CLASS-528-347	c 27	N86-32568 *
US-PATENT-CLASS-528-128	c 25	N92-16043 *	US-PATENT-CLASS-528-228	c 27	N81-27272 *	US-PATENT-CLASS-528-348	c 27	N84-22746 *
US-PATENT-CLASS-528-128	c 27	N92-28751 *	US-PATENT-CLASS-528-228	c 27	N82-11206 *	US-PATENT-CLASS-528-350	c 24	N91-25200 *
US-PATENT-CLASS-528-128	c 27	N92-33008 *	US-PATENT-CLASS-528-228	c 27	N83-34040 *	US-PATENT-CLASS-528-351	c 27	N82-11206 *
US-PATENT-CLASS-528-128	c 27	N92-33014 *	US-PATENT-CLASS-528-228	c 27	N84-22745 *	US-PATENT-CLASS-528-352	c 27	N85-21348 *
US-PATENT-CLASS-528-128	c 27	N92-33015 *	US-PATENT-CLASS-528-228	c 27	N89-16042 *	US-PATENT-CLASS-528-352	c 27	N85-34280 *
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US-PATENT-CLASS-60-211	c 28	N73-13773 *	US-PATENT-CLASS-60-291	c 31	N73-13898 *	US-PATENT-CLASS-60-39.66	c 37	N78-10467 *
US-PATENT-CLASS-60-214	c 15	N74-27360 *	US-PATENT-CLASS-60-300	c 28	N80-10374 *	US-PATENT-CLASS-60-39.66	c 37	N79-11403 *
US-PATENT-CLASS-60-215	c 06	N73-30097 *	US-PATENT-CLASS-60-303	c 35	N84-17555 *	US-PATENT-CLASS-60-39.69R	c 34	N78-27357 *
US-PATENT-CLASS-60-215	c 15	N74-27360 *	US-PATENT-CLASS-60-303	c 37	N84-33808 *	US-PATENT-CLASS-60-39.72	c 23	N73-30665 *
US-PATENT-CLASS-60-217	c 12	N71-17631 *	US-PATENT-CLASS-60-311	c 35	N84-17555 *	US-PATENT-CLASS-60-39.74A	c 15	N72-25455 *
US-PATENT-CLASS-60-225	c 28	N71-10780 *	US-PATENT-CLASS-60-316	c 34	N78-18364 *	US-PATENT-CLASS-60-39.74R	c 23	N73-30665 *
US-PATENT-CLASS-60-226A	c 07	N77-17059 *	US-PATENT-CLASS-60-35.3	c 28	N70-33265 *	US-PATENT-CLASS-60-39.74R	c 20	N76-14190 *
US-PATENT-CLASS-60-226A	c 07	N79-14096 *	US-PATENT-CLASS-60-35.3	c 28	N70-40367 *	US-PATENT-CLASS-60-39.74	c 28	N70-33241 *
US-PATENT-CLASS-60-226A	c 07	N79-14097 *	US-PATENT-CLASS-60-35.54	c 28	N70-34294 *	US-PATENT-CLASS-60-39.74	c 28	N72-17843 *
US-PATENT-CLASS-60-226A	c 07	N82-26293 *	US-PATENT-CLASS-60-35.54	c 28	N70-38645 *	US-PATENT-CLASS-60-39.74	c 20	N79-21125 *
US-PATENT-CLASS-60-226R	c 07	N78-18066 *	US-PATENT-CLASS-60-35.54	c 28	N71-29153 *	US-PATENT-CLASS-60-39.82E	c 20	N78-24275 *
US-PATENT-CLASS-60-226R	c 07	N77-14025 *	US-PATENT-CLASS-60-35.55	c 28	N70-34162 *	US-PATENT-CLASS-60-39.83	c 07	N84-33410 *
US-PATENT-CLASS-60-226R	c 07	N77-28118 *	US-PATENT-CLASS-60-35.55	c 28	N70-38711 *	US-PATENT-CLASS-60-39.48	c 28	N72-11709 *
US-PATENT-CLASS-60-226R	c 07	N78-17055 *	US-PATENT-CLASS-60-35.55	c 21	N71-15582 *	US-PATENT-CLASS-60-415	c 85	N87-21755 *
US-PATENT-CLASS-60-226R	c 07	N78-17056 *	US-PATENT-CLASS-60-35.55	c 15	N71-28951 *	US-PATENT-CLASS-60-508	c 44	N79-18443 *
US-PATENT-CLASS-60-226R	c 07	N78-25089 *	US-PATENT-CLASS-60-35.5	c 28	N70-33356 *	US-PATENT-CLASS-60-516	c 20	N75-24837 *
US-PATENT-CLASS-60-226R	c 07	N79-14096 *	US-PATENT-CLASS-60-35.5	c 28	N70-34175 *	US-PATENT-CLASS-60-516	c 44	N82-24640 *
US-PATENT-CLASS-60-226R	c 07	N81-19116 *	US-PATENT-CLASS-60-35.5	c 28	N70-36802 *	US-PATENT-CLASS-60-517	c 44	N76-29701 *
US-PATENT-CLASS-60-228	c 07	N77-17059 *	US-PATENT-CLASS-60-35.5	c 21	N70-36938 *	US-PATENT-CLASS-60-517	c 37	N81-25370 *
US-PATENT-CLASS-60-230	c 07	N78-27121 *	US-PATENT-CLASS-60-35.5	c 25	N70-36946 *	US-PATENT-CLASS-60-518	c 37	N81-14318 *
US-PATENT-CLASS-60-236	c 07	N81-19116 *	US-PATENT-CLASS-60-35.5	c 28	N70-37245 *	US-PATENT-CLASS-60-518	c 37	N81-17432 *
US-PATENT-CLASS-60-238	c 07	N81-19116 *	US-PATENT-CLASS-60-35.5	c 28	N70-37980 *	US-PATENT-CLASS-60-51	c 15	N71-27754 *
US-PATENT-CLASS-60-239	c 07	N81-19116 *	US-PATENT-CLASS-60-35.5	c 28	N71-14043 *	US-PATENT-CLASS-60-520	c 37	N80-31790 *
US-PATENT-CLASS-60-23	c 09	N71-26182 *	US-PATENT-CLASS-60-35.5	c 28	N71-15661 *	US-PATENT-CLASS-60-524	c 44	N81-17518 *
US-PATENT-CLASS-60-23	c 15	N72-12409 *	US-PATENT-CLASS-60-35.60	c 28	N71-15659 *	US-PATENT-CLASS-60-525	c 37	N81-25370 *
US-PATENT-CLASS-60-23	c 21	N72-31637 *	US-PATENT-CLASS-60-35.6	c 28	N70-33284 *	US-PATENT-CLASS-60-527	c 44	N74-33379 *
US-PATENT-CLASS-60-23	c 15	N73-13467 *	US-PATENT-CLASS-60-35.6	c 28	N70-33331 *	US-PATENT-CLASS-60-527	c 37	N77-12402 *
US-PATENT-CLASS-60-240	c 28	N71-24736 *	US-PATENT-CLASS-60-35.6	c 28	N70-33374 *	US-PATENT-CLASS-60-527	c 37	N77-19458 *
US-PATENT-CLASS-60-240	c 28	N73-13773 *	US-PATENT-CLASS-60-35.6	c 28	N70-33375 *	US-PATENT-CLASS-60-527	c 37	N78-31426 *
US-PATENT-CLASS-60-240	c 07	N80-18039 *	US-PATENT-CLASS-60-35.6	c 28	N70-34860 *	US-PATENT-CLASS-60-527	c 37	N86-19804 *
US-PATENT-CLASS-60-240	c 20	N92-10054 *	US-PATENT-CLASS-60-35.6	c 28	N70-35381 *	US-PATENT-CLASS-60-527	c 35	N88-29151 *
US-PATENT-CLASS-60-240	c 20	N92-15122 *	US-PATENT-CLASS-60-35.6	c 27	N70-35534 *	US-PATENT-CLASS-60-528	c 37	N86-19604 *
US-PATENT-CLASS-60-243	c 33	N71-21507 *	US-PATENT-CLASS-60-35.6	c 15	N70-36535 *	US-PATENT-CLASS-60-530	c 20	N75-24837 *
US-PATENT-CLASS-60-243	c 15	N71-27432 *	US-PATENT-CLASS-60-35.6	c 28	N70-36806 *	US-PATENT-CLASS-60-53	c 37	N77-22479 *
US-PATENT-CLASS-60-243	c 28	N73-13773 *	US-PATENT-CLASS-60-35.6	c 28	N70-36910 *	US-PATENT-CLASS-60-54.5	c 15	N71-10658 *
US-PATENT-CLASS-60-243	c 20	N79-21124 *	US-PATENT-CLASS-60-35.6	c 28	N70-38249 *	US-PATENT-CLASS-60-560	c 35	N78-10428 *
US-PATENT-CLASS-60-243	c 20	N92-15122 *	US-PATENT-CLASS-60-35.6	c 28	N70-38504 *	US-PATENT-CLASS-60-572	c 44	N79-18443 *
US-PATENT-CLASS-60-251	c 28	N70-41311 *	US-PATENT-CLASS-60-35.6	c 28	N70-38505 *	US-PATENT-CLASS-60-574	c 35	N78-10428 *
US-PATENT-CLASS-60-251	c 27	N71-21819 *	US-PATENT-CLASS-60-35.6	c 28	N70-38710 *	US-PATENT-CLASS-60-606	c 28	N80-10374 *
US-PATENT-CLASS-60-254	c 28	N72-20758 *	US-PATENT-CLASS-60-35.6	c 28	N70-39899 *	US-PATENT-CLASS-60-606	c 37	N84-33808 *
US-PATENT-CLASS-60-254	c 28	N73-24784 *	US-PATENT-CLASS-60-35.6	c 33	N71-15623 *	US-PATENT-CLASS-60-632	c 20	N80-18097 *
US-PATENT-CLASS-60-256	c 28	N73-24784 *	US-PATENT-CLASS-60-35.6	c 27	N71-15634 *	US-PATENT-CLASS-60-634	c 37	N87-23983 *
US-PATENT-CLASS-60-257	c 31	N70-41948 *	US-PATENT-CLASS-60-35.6	c 31	N71-15637 *	US-PATENT-CLASS-60-638	c 37	N87-23983 *
US-PATENT-CLASS-60-258	c 15	N70-22192 *	US-PATENT-CLASS-60-35.6	c 31	N71-15647 *	US-PATENT-CLASS-60-641.12	c 44	N84-23018 *
US-PATENT-CLASS-60-258	c 28	N71-22983 *	US-PATENT-CLASS-60-35.6	c 28	N71-15660 *	US-PATENT-CLASS-60-641.14	c 44	N82-24640 *
US-PATENT-CLASS-60-258	c 28	N71-28849 *	US-PATENT-CLASS-60-35.6	c 14	N71-27186 *	US-PATENT-CLASS-60-641.8	c 44	N92-29143 *
US-PATENT-CLASS-60-258	c 28	N72-17843 *	US-PATENT-CLASS-60-36	c 15	N72-33477 *	US-PATENT-CLASS-60-641	c 44	N75-32581 *
US-PATENT-CLASS-60-258	c 15	N72-25455 *	US-PATENT-CLASS-60-37	c 15	N73-13467 *	US-PATENT-CLASS-60-641	c 44	N77-32582 *
US-PATENT-CLASS-60-258	c 20	N74-13502 *	US-PATENT-CLASS-60-39.02	c 07	N86-20389 *	US-PATENT-CLASS-60-641	c 44	N78-17460 *
US-PATENT-CLASS-60-258	c 20	N87-14420 *	US-PATENT-CLASS-60-39.03	c 07	N77-23106 *	US-PATENT-CLASS-60-641	c 44	N78-32542 *
US-PATENT-CLASS-60-258	c 20	N92-10054 *	US-PATENT-CLASS-60-39.03	c 07	N80-18039 *	US-PATENT-CLASS-60-641	c 44	N79-18443 *
US-PATENT-CLASS-60-259	c 28	N70-41275 *	US-PATENT-CLASS-60-39.06	c 07	N80-26298 *	US-PATENT-CLASS-60-641	c 44	N81-17518 *
US-PATENT-CLASS-60-259	c 20	N74-13502 *	US-PATENT-CLASS-60-39.06	c 07	N81-29129 *	US-PATENT-CLASS-60-645	c 34	N79-20335 *
US-PATENT-CLASS-60-259	c 34	N77-30399 *	US-PATENT-CLASS-60-39.07	c 44	N78-32539 *	US-PATENT-CLASS-60-649	c 34	N79-20335 *
US-PATENT-CLASS-60-259	c 20	N80-14188 *	US-PATENT-CLASS-60-39.07	c 07	N82-32366 *	US-PATENT-CLASS-60-659	c 44	N75-32581 *
US-PATENT-CLASS-60-259	c 05	N81-26114 *	US-PATENT-CLASS-60-39.07	c 07	N83-36029 *	US-PATENT-CLASS-60-659	c 44	N76-31667 *
US-PATENT-CLASS-60-259	c 20	N90-19298 *	US-PATENT-CLASS-60-39.07	c 07	N86-20389 *	US-PATENT-CLASS-60-659	c 44	N92-29143 *
US-PATENT-CLASS-60-259	c 20	N92-15122 *	US-PATENT-CLASS-60-39.12	c 28	N91-14495 *	US-PATENT-CLASS-60-671	c 44	N78-32542 *
US-PATENT-CLASS-60-25	c 15	N73-24513 *	US-PATENT-CLASS-60-39.14	c 44	N78-32539 *	US-PATENT-CLASS-60-698	c 44	N84-23018 *
US-PATENT-CLASS-60-25	c 37	N74-21060 *	US-PATENT-CLASS-60-39.14	c 07	N79-10057 *	US-PATENT-CLASS-60-716	c 44	N84-23018 *
US-PATENT-CLASS-60-260	c 28	N70-41992 *	US-PATENT-CLASS-60-39.182	c 28	N91-14495 *	US-PATENT-CLASS-60-721	c 71	N79-20827 *
US-PATENT-CLASS-60-260	c 28	N72-18766 *	US-PATENT-CLASS-60-39.23	c 20	N76-14190 *	US-PATENT-CLASS-60-721	c 71	N83-32515 *
US-PATENT-CLASS-60-260	c 20	N90-19298 *	US-PATENT-CLASS-60-39.23	c 07	N85-35195 *	US-PATENT-CLASS-60-721	c 71	N83-32516 *
US-PATENT-CLASS-60-261	c 37	N78-17384 *	US-PATENT-CLASS-60-39.24	c 07	N81-19115 *	US-PATENT-CLASS-60-721	c 71	N84-23233 *
US-PATENT-CLASS-60-262	c 37	N78-17384 *	US-PATENT-CLASS-60-39.27	c 07	N80-18039 *	US-PATENT-CLASS-60-726	c 07	N81-29129 *
US-PATENT-CLASS-60-262	c 07	N78-18067 *	US-PATENT-CLASS-60-39.28R	c 28	N73-19793 *	US-PATENT-CLASS-60-726	c 07	N82-32366 *
US-PATENT-CLASS-60-262	c 07	N83-33884 *	US-PATENT-CLASS-60-39.28R	c 07	N77-23106 *	US-PATENT-CLASS-60-730	c 05	N81-26114 *
US-PATENT-CLASS-60-263	c 28	N71-24321 *	US-PATENT-CLASS-60-39.28R	c 37	N78-10467 *	US-PATENT-CLASS-60-730	c 37	N84-22958 *
US-PATENT-CLASS-60-263	c 07	N77-28118 *	US-PATENT-CLASS-60-39.28R	c 37	N78-24545 *	US-PATENT-CLASS-60-730	c 25	N90-11824 *
US-PATENT-CLASS-60-264	c 07	N80-32392 *	US-PATENT-CLASS-60-39.28R	c 37	N79-11403 *	US-PATENT-CLASS-60-732	c 25	N90-11824 *
US-PATENT-CLASS-60-264	c 20	N89-25279 *	US-PATENT-CLASS-60-39.281	c 20	N92-10054 *	US-PATENT-CLASS-60-733	c 07	N80-26298 *
US-PATENT-CLASS-60-265	c 28	N71-20942 *	US-PATENT-CLASS-60-39.29	c 20	N76-14190 *	US-PATENT-CLASS-60-736	c 37	N84-22958 *
US-PATENT-CLASS-60-265	c 33	N72-25911 *	US-PATENT-CLASS-60-39.29	c 35	N76-14431 *	US-PATENT-CLASS-60-736	c 07	N86-20389 *
US-PATENT-CLASS-60-265	c 33	N73-25952 *	US-PATENT-CLASS-60-39.29	c 07	N82-32366 *	US-PATENT-CLASS-60-737	c 07	N81-29129 *
US-PATENT-CLASS-60-265	c 20	N76-14191 *	US-PATENT-CLASS-60-39.29	c 07	N84-33410 *	US-PATENT-CLASS-60-746	c 07	N80-26298 *
US-PATENT-CLASS-60-266	c 33	N71-28852 *	US-PATENT-CLASS-60-39.31	c 07	N78-18066 *	US-PATENT-CLASS-60-746	c 20	N87-14420 *
US-PATENT-CLASS-60-266	c 28	N72-23810 *	US-PATENT-CLASS-60-39.31	c 07	N79-14096 *	US-PATENT-CLASS-60-748	c 07	N85-35195 *
US-PATENT-CLASS-60-267	c 33	N71-29053 *	US-PATENT-CLASS-60-39.33	c 44	N78-25239 *	US-PATENT-CLASS-60-757	c 07	N84-24577 *
US-PATENT-CLASS-60-267	c 33	N72-25911 *	US-PATENT-CLASS-60-39.36	c 28	N71-20330 *	US-PATENT-CLASS-60-836	c 24	N78-14096 *
US-PATENT-CLASS-60-267	c 33	N73-25952 *	US-PATENT-CLASS-60-39.36	c 28	N71-28915 *	US-PATENT-CLASS-60-97	c 03	N71-12260 *
US-PATENT-CLASS-60-267	c 28	N73-32606 *	US-PATENT-CLASS-60-39.46M	c 20	N82-18314 *	US-PATENT-CLASS-604-114	c 52	N83-27577 *
US-PATENT-CLASS-60-267	c 20	N76-14191 *	US-PATENT-CLASS-60-39.46S	c 20	N86-26368 *	US-PATENT-CLASS-604-151	c 52	N83-27577 *
US-PATENT-CLASS-60-267	c 34	N79-13288 *	US-PATENT-CLASS-60-39.46	c 27	N71-15635 *	US-PATENT-CLASS-604-280	c 52	N83-21785 *
US-PATENT-CLASS-60-267	c 34	N79-13289 *	US-PATENT-CLASS-60-39.46	c 15	N74-27360 *	US-PATENT-CLASS-604-368	c 54	N84-11758 *
US-PATENT-CLASS-60-267	c 34	N80-24573 *	US-PATENT-CLASS-60-39.47	c 27	N71-16392 *	US-PATENT-CLASS-604-378	c 54	N84-11758 *
US-PATENT-CLASS-60-267	c 44	N81-24519 *	US-PATENT-CLASS-60-39.48	c 28	N70-38199 *	US-PATENT-CLASS-604-396	c 54	N84-11758 *
US-PATENT-CLASS-60-267	c 05	N81-26114 *	US-PATENT-CLASS-60-39.48	c 28	N70-39931 *	US-PATENT-CLASS-604-8	c 52	N83-21785 *
US-PATENT-CLASS-60-269	c 07	N83-33884 *	US-PATENT-CLASS-60-39.48	c 27	N71-28929 *	US-PATENT-CLASS-606-106	c 52	N92-33032 *

US-PATENT-CLASS-606-127	c 52	N92-33032 *	US-PATENT-CLASS-62-514R	c 35	N81-14287 *	US-PATENT-CLASS-72-363	c 37	N76-14461 *
US-PATENT-CLASS-606-78	c 52	N92-33032 *	US-PATENT-CLASS-62-514R	c 31	N83-31897 *	US-PATENT-CLASS-72-364	c 15	N71-18579 *
US-PATENT-CLASS-61-83	c 18	N74-22136 *	US-PATENT-CLASS-62-514R	c 34	N83-34221 *	US-PATENT-CLASS-72-369	c 15	N71-24679 *
US-PATENT-CLASS-62-224	c 35	N92-29156 *	US-PATENT-CLASS-62-514R	c 31	N88-14223 *	US-PATENT-CLASS-72-436	c 37	N79-28550 *
US-PATENT-CLASS-62-DIG.1	c 34	N84-22903 *	US-PATENT-CLASS-62-514	c 23	N71-26654 *	US-PATENT-CLASS-72-447	c 15	N73-13463 *
US-PATENT-CLASS-62-DIG.5	c 05	N81-26114 *	US-PATENT-CLASS-62-51	c 15	N72-17453 *	US-PATENT-CLASS-72-451	c 37	N79-28550 *
US-PATENT-CLASS-62-100	c 34	N77-19353 *	US-PATENT-CLASS-62-55.5	c 11	N71-24964 *	US-PATENT-CLASS-72-453	c 37	N76-18454 *
US-PATENT-CLASS-62-100	c 28	N78-24365 *	US-PATENT-CLASS-62-55.5	c 15	N72-22484 *	US-PATENT-CLASS-72-467	c 15	N71-23817 *
US-PATENT-CLASS-62-121	c 34	N77-19353 *	US-PATENT-CLASS-62-55	c 15	N70-38020 *	US-PATENT-CLASS-72-46	c 24	N75-33181 *
US-PATENT-CLASS-62-128	c 35	N84-28018 *	US-PATENT-CLASS-62-55	c 34	N77-30399 *	US-PATENT-CLASS-72-470	c 37	N79-28550 *
US-PATENT-CLASS-62-129	c 31	N76-14284 *	US-PATENT-CLASS-62-56	c 05	N72-11084 *	US-PATENT-CLASS-72-476	c 15	N73-13463 *
US-PATENT-CLASS-62-12	c 28	N81-14103 *	US-PATENT-CLASS-62-62	c 34	N83-34221 *	US-PATENT-CLASS-72-53	c 15	N71-18616 *
US-PATENT-CLASS-62-148	c 44	N82-26776 *	US-PATENT-CLASS-62-6	c 15	N69-23190 *	US-PATENT-CLASS-72-53	c 15	N73-32360 *
US-PATENT-CLASS-62-15	c 06	N70-34946 *	US-PATENT-CLASS-62-6	c 23	N71-15467 *	US-PATENT-CLASS-72-54	c 37	N76-14461 *
US-PATENT-CLASS-62-176	c 05	N73-26071 *	US-PATENT-CLASS-62-6	c 15	N71-23025 *	US-PATENT-CLASS-72-56	c 15	N70-34249 *
US-PATENT-CLASS-62-18	c 28	N81-14103 *	US-PATENT-CLASS-62-6	c 23	N72-25619 *	US-PATENT-CLASS-72-56	c 15	N71-24833 *
US-PATENT-CLASS-62-207	c 05	N73-26071 *	US-PATENT-CLASS-62-6	c 37	N76-29590 *	US-PATENT-CLASS-72-56	c 15	N71-24865 *
US-PATENT-CLASS-62-209	c 05	N73-26071 *	US-PATENT-CLASS-62-6	c 44	N76-29701 *	US-PATENT-CLASS-72-56	c 15	N71-26148 *
US-PATENT-CLASS-62-217	c 31	N77-10229 *	US-PATENT-CLASS-62-6	c 44	N83-28574 *	US-PATENT-CLASS-72-60	c 15	N71-24836 *
US-PATENT-CLASS-62-235.1	c 44	N82-26776 *	US-PATENT-CLASS-62-6	c 31	N85-21404 *	US-PATENT-CLASS-72-61	c 15	N71-26346 *
US-PATENT-CLASS-62-238.3	c 44	N82-26776 *	US-PATENT-CLASS-62-78	c 51	N79-10694 *	US-PATENT-CLASS-72-63	c 20	N75-18310 *
US-PATENT-CLASS-62-239	c 44	N82-26776 *	US-PATENT-CLASS-62-7	c 15	N73-12486 *	US-PATENT-CLASS-72-63	c 37	N76-14461 *
US-PATENT-CLASS-62-244	c 44	N82-26776 *	US-PATENT-CLASS-62-80	c 23	N72-25619 *	US-PATENT-CLASS-72-750	c 35	N88-24927 *
US-PATENT-CLASS-62-259	c 05	N73-20137 *	US-PATENT-CLASS-62-85	c 23	N72-25619 *	US-PATENT-CLASS-72-83	c 15	N71-22723 *
US-PATENT-CLASS-62-259	c 05	N73-26071 *	US-PATENT-CLASS-62-89	c 05	N73-26071 *	US-PATENT-CLASS-73-DIG.11	c 35	N78-18390 *
US-PATENT-CLASS-62-259	c 54	N78-32721 *	US-PATENT-CLASS-62-90	c 34	N91-21473 *	US-PATENT-CLASS-73-1-DV	c 71	N86-21276 *
US-PATENT-CLASS-62-264	c 34	N84-22903 *	US-PATENT-CLASS-62-93	c 15	N69-21465 *	US-PATENT-CLASS-73-1-DV	c 71	N87-21653 *
US-PATENT-CLASS-62-268	c 14	N71-20427 *	US-PATENT-CLASS-62-93	c 03	N72-28025 *	US-PATENT-CLASS-73-1B	c 35	N76-24523 *
US-PATENT-CLASS-62-268	c 34	N79-20336 *	US-PATENT-CLASS-62-93	c 77	N75-20139 *	US-PATENT-CLASS-73-1B	c 35	N84-28019 *
US-PATENT-CLASS-62-269	c 34	N77-19353 *	US-PATENT-CLASS-62-93	c 54	N91-32795 *	US-PATENT-CLASS-73-1DV	c 14	N73-27379 *
US-PATENT-CLASS-62-285	c 77	N75-20139 *	US-PATENT-CLASS-62-93	c 54	N91-32795 *	US-PATENT-CLASS-73-1F	c 35	N74-21019 *
US-PATENT-CLASS-62-288	c 77	N75-20139 *	US-PATENT-CLASS-62-93	c 31	N92-15203 *	US-PATENT-CLASS-73-1H	c 33	N92-33021 *
US-PATENT-CLASS-62-289	c 77	N75-20139 *	US-PATENT-CLASS-62-93	c 31	N92-15203 *	US-PATENT-CLASS-73-1R	c 14	N71-29134 *
US-PATENT-CLASS-62-290	c 77	N75-20139 *	US-PATENT-CLASS-62-93	c 31	N92-15203 *	US-PATENT-CLASS-73-1R	c 35	N75-15932 *
US-PATENT-CLASS-62-295	c 35	N83-32026 *	US-PATENT-CLASS-62-93	c 31	N92-15203 *	US-PATENT-CLASS-73-1R	c 35	N76-15432 *
US-PATENT-CLASS-62-2	c 15	N71-15906 *	US-PATENT-CLASS-62-93	c 15	N71-28467 *	US-PATENT-CLASS-73-100	c 15	N70-41993 *
US-PATENT-CLASS-62-315	c 34	N77-19353 *	US-PATENT-CLASS-64-18	c 15	N71-28959 *	US-PATENT-CLASS-73-100	c 32	N72-25877 *
US-PATENT-CLASS-62-317	c 77	N75-20139 *	US-PATENT-CLASS-64-27	c 15	N71-28959 *	US-PATENT-CLASS-73-103	c 15	N71-17696 *
US-PATENT-CLASS-62-333	c 34	N91-21473 *	US-PATENT-CLASS-64-28	c 15	N69-27505 *	US-PATENT-CLASS-73-103	c 14	N72-27412 *
US-PATENT-CLASS-62-376	c 31	N78-17237 *	US-PATENT-CLASS-65-DIG.11	c 37	N74-21063 *	US-PATENT-CLASS-73-103	c 14	N73-32323 *
US-PATENT-CLASS-62-376	c 34	N79-20336 *	US-PATENT-CLASS-65-DIG.4	c 71	N78-10837 *	US-PATENT-CLASS-73-103	c 35	N76-18400 *
US-PATENT-CLASS-62-383	c 33	N82-24419 *	US-PATENT-CLASS-65-DIG.7	c 71	N78-10837 *	US-PATENT-CLASS-73-104	c 35	N74-32879 *
US-PATENT-CLASS-62-384	c 23	N71-24725 *	US-PATENT-CLASS-65-102	c 71	N78-10837 *	US-PATENT-CLASS-73-105	c 14	N70-34161 *
US-PATENT-CLASS-62-384	c 31	N87-21159 *	US-PATENT-CLASS-65-108	c 35	N77-24455 *	US-PATENT-CLASS-73-105	c 14	N71-17586 *
US-PATENT-CLASS-62-384	c 34	N91-21473 *	US-PATENT-CLASS-65-11.1	c 31	N86-21718 *	US-PATENT-CLASS-73-105	c 35	N79-14345 *
US-PATENT-CLASS-62-3	c 20	N75-24837 *	US-PATENT-CLASS-65-12	c 31	N86-21718 *	US-PATENT-CLASS-73-115	c 07	N84-22559 *
US-PATENT-CLASS-62-3	c 34	N78-17335 *	US-PATENT-CLASS-65-134	c 71	N83-35781 *	US-PATENT-CLASS-73-115	c 11	N70-33278 *
US-PATENT-CLASS-62-3	c 34	N83-29625 *	US-PATENT-CLASS-65-134	c 27	N87-21111 *	US-PATENT-CLASS-73-116	c 11	N70-34844 *
US-PATENT-CLASS-62-3	c 31	N85-29082 *	US-PATENT-CLASS-65-136	c 27	N87-21111 *	US-PATENT-CLASS-73-116	c 14	N70-40203 *
US-PATENT-CLASS-62-40	c 15	N71-24044 *	US-PATENT-CLASS-65-13	c 27	N87-21111 *	US-PATENT-CLASS-73-116	c 11	N70-41677 *
US-PATENT-CLASS-62-40	c 28	N81-14103 *	US-PATENT-CLASS-65-142	c 31	N81-33319 *	US-PATENT-CLASS-73-116	c 11	N71-10604 *
US-PATENT-CLASS-62-45	c 15	N70-33323 *	US-PATENT-CLASS-65-142	c 27	N82-28442 *	US-PATENT-CLASS-73-116	c 31	N71-15643 *
US-PATENT-CLASS-62-45	c 31	N70-41871 *	US-PATENT-CLASS-65-142	c 31	N83-31896 *	US-PATENT-CLASS-73-116	c 11	N72-27262 *
US-PATENT-CLASS-62-45	c 33	N71-25351 *	US-PATENT-CLASS-65-142	c 31	N83-35176 *	US-PATENT-CLASS-73-117.1	c 09	N84-27749 *
US-PATENT-CLASS-62-45	c 33	N71-28892 *	US-PATENT-CLASS-65-142	c 71	N84-28568 *	US-PATENT-CLASS-73-117.4	c 14	N71-20429 *
US-PATENT-CLASS-62-45	c 15	N73-12486 *	US-PATENT-CLASS-65-160	c 26	N86-32551 *	US-PATENT-CLASS-73-117.4	c 28	N71-27094 *
US-PATENT-CLASS-62-45	c 35	N74-15093 *	US-PATENT-CLASS-65-1	c 71	N84-28568 *	US-PATENT-CLASS-73-117.4	c 35	N75-29382 *
US-PATENT-CLASS-62-45	c 31	N89-29578 *	US-PATENT-CLASS-65-21.2	c 26	N86-32551 *	US-PATENT-CLASS-73-117	c 14	N71-22965 *
US-PATENT-CLASS-62-461	c 31	N92-15203 *	US-PATENT-CLASS-65-21.3	c 31	N83-35176 *	US-PATENT-CLASS-73-12	c 14	N71-23225 *
US-PATENT-CLASS-62-467R	c 34	N84-22903 *	US-PATENT-CLASS-65-21.3	c 71	N84-28568 *	US-PATENT-CLASS-73-12	c 14	N71-26161 *
US-PATENT-CLASS-62-467	c 33	N70-37979 *	US-PATENT-CLASS-65-21.4	c 31	N81-33319 *	US-PATENT-CLASS-73-12	c 14	N72-16282 *
US-PATENT-CLASS-62-467	c 33	N71-17897 *	US-PATENT-CLASS-65-21.4	c 27	N82-28442 *	US-PATENT-CLASS-73-12	c 14	N72-25411 *
US-PATENT-CLASS-62-467	c 05	N72-11084 *	US-PATENT-CLASS-65-21.4	c 31	N83-35176 *	US-PATENT-CLASS-73-12	c 14	N73-32327 *
US-PATENT-CLASS-62-467	c 33	N72-25911 *	US-PATENT-CLASS-65-21.4	c 71	N84-28568 *	US-PATENT-CLASS-73-12	c 35	N74-21062 *
US-PATENT-CLASS-62-467	c 33	N73-25952 *	US-PATENT-CLASS-65-21.4	c 31	N91-32240 *	US-PATENT-CLASS-73-12	c 35	N75-33367 *
US-PATENT-CLASS-62-467	c 20	N75-24837 *	US-PATENT-CLASS-65-213	c 71	N84-16940 *	US-PATENT-CLASS-73-12	c 75	N76-14931 *
US-PATENT-CLASS-62-467	c 31	N88-14223 *	US-PATENT-CLASS-65-214	c 31	N83-31896 *	US-PATENT-CLASS-73-12	c 35	N77-18417 *
US-PATENT-CLASS-62-467	c 31	N89-12785 *	US-PATENT-CLASS-65-22	c 31	N81-33319 *	US-PATENT-CLASS-73-12	c 43	N79-25443 *
US-PATENT-CLASS-62-467	c 31	N89-14351 *	US-PATENT-CLASS-65-22	c 27	N82-28442 *	US-PATENT-CLASS-73-12	c 43	N80-14423 *
US-PATENT-CLASS-62-467	c 31	N90-21215 *	US-PATENT-CLASS-65-22	c 31	N83-31896 *	US-PATENT-CLASS-73-12	c 43	N80-23711 *
US-PATENT-CLASS-62-475	c 23	N72-25619 *	US-PATENT-CLASS-65-22	c 31	N83-35176 *	US-PATENT-CLASS-73-12	c 37	N84-33807 *
US-PATENT-CLASS-62-476	c 44	N82-26776 *	US-PATENT-CLASS-65-2	c 71	N78-10837 *	US-PATENT-CLASS-73-133R	c 35	N77-14407 *
US-PATENT-CLASS-62-47	c 28	N81-14103 *	US-PATENT-CLASS-65-2	c 31	N86-21718 *	US-PATENT-CLASS-73-133	c 14	N71-23725 *
US-PATENT-CLASS-62-48	c 28	N78-24365 *	US-PATENT-CLASS-65-2	c 27	N87-21111 *	US-PATENT-CLASS-73-133	c 15	N72-22482 *
US-PATENT-CLASS-62-48	c 31	N83-31897 *	US-PATENT-CLASS-65-30R	c 27	N78-32260 *	US-PATENT-CLASS-73-134	c 14	N70-40201 *
US-PATENT-CLASS-62-48	c 31	N87-21159 *	US-PATENT-CLASS-65-32	c 71	N78-10837 *	US-PATENT-CLASS-73-136R	c 15	N72-26371 *
US-PATENT-CLASS-62-48	c 31	N88-14223 *	US-PATENT-CLASS-65-3	c 37	N75-26371 *	US-PATENT-CLASS-73-136	c 14	N70-34818 *
US-PATENT-CLASS-62-48	c 31	N89-29578 *	US-PATENT-CLASS-65-4B	c 71	N78-10837 *	US-PATENT-CLASS-73-140	c 11	N72-25288 *
US-PATENT-CLASS-62-49	c 31	N76-14284 *	US-PATENT-CLASS-65-43	c 37	N75-15992 *	US-PATENT-CLASS-73-141AB	c 14	N72-33377 *
US-PATENT-CLASS-62-4	c 44	N77-32581 *	US-PATENT-CLASS-65-43	c 24	N79-25143 *	US-PATENT-CLASS-73-141A	c 14	N72-21405 *
US-PATENT-CLASS-62-4	c 44	N78-17460 *	US-PATENT-CLASS-65-59A	c 35	N77-24455 *	US-PATENT-CLASS-73-141A	c 14	N72-22437 *
US-PATENT-CLASS-62-50	c 15	N70-34247 *	US-PATENT-CLASS-65-60D	c 27	N78-32260 *	US-PATENT-CLASS-73-141A	c 35	N74-26945 *
US-PATENT-CLASS-62-50	c 35	N78-12390 *	US-PATENT-CLASS-65-61	c 74	N80-21419 *	US-PATENT-CLASS-73-141A	c 35	N74-27865 *
US-PATENT-CLASS-62-51.2	c 35	N92-29156 *	US-PATENT-CLASS-65-7	c 18	N71-23088 *	US-PATENT-CLASS-73-141A	c 35	N75-33369 *
US-PATENT-CLASS-62-514 R	c 35	N83-32026 *	US-PATENT-CLASS-65-87	c 71	N78-10837 *	US-PATENT-CLASS-73-141A	c 52	N81-20703 *
US-PATENT-CLASS-62-514-JT	c 31	N89-14351 *	US-PATENT-CLASS-65-87	c 35	N77-24455 *	US-PATENT-CLASS-73-141	c 14	N70-41957 *
US-PATENT-CLASS-62-514-R	c 31	N87-21159 *	US-PATENT-CLASS-65-87	c 35	N77-24455 *	US-PATENT-CLASS-73-141	c 15	N71-20441 *
US-PATENT-CLASS-62-514-R	c 37	N87-23982 *	US-PATENT-CLASS-70-58	c 33	N81-25299 *	US-PATENT-CLASS-73-141	c 14	N71-23790 *
US-PATENT-CLASS-62-514-R	c 31	N89-12785 *	US-PATENT-CLASS-71-98	c 51	N83-17045 *	US-PATENT-CLASS-73-141	c 26	N71-25490 *
US-PATENT-CLASS-62-514JT	c 31	N77-10229 *	US-PATENT-CLASS-72-253	c 15	N71-22797 *	US-PATENT-CLASS-73-142	c 15	N70-40180 *
US-PATENT-CLASS-62-514R	c 35	N78-12390 *	US-PATENT-CLASS-72-258	c 15	N73-13464 *	US-PATENT-CLASS-73-142	c 14	N71-20439 *
US-PATENT-CLASS-62-514R	c 31	N78-17237 *	US-PATENT-CLASS-72-307	c 15	N72-12408 *	US-PATENT-CLASS-73-143	c 35	N75-19615 *
US-PATENT-CLASS-62-514R	c 31	N78-25256 *	US-PATENT-CLASS-72-324	c 71	N86-21276 *	US-PATENT-CLASS-73-143	c 14	N75-24794 *
US-PATENT-CLASS-62-514R	c 51	N79-10694 *	US-PATENT-CLASS-72-341	c 71	N86-21276 *	US-PATENT-CLASS-73-144	c 15	N71-22878 *
US-PATENT-CLASS-62-514R	c 31	N79-17029 *	US-PATENT-CLASS-72-34	c 15	N71-21536 *	US-PATENT-CLASS-73-147	c 11	N70-33287 *
US-PATENT-CLASS-62-514R	c 34	N79-20336 *	US-PATENT-CLASS-72-354	c 15	N71-23811 *	US-PATENT-CLASS-73-147	c 14	N70-33386 *

US-PATENT-CLASS-73-147	c 14	N70-34813 *	US-PATENT-CLASS-73-170R	c 35	N75-33367 *	US-PATENT-CLASS-73-23	c 35	N78-19465 *
US-PATENT-CLASS-73-147	c 11	N70-36913 *	US-PATENT-CLASS-73-170R	c 91	N76-30131 *	US-PATENT-CLASS-73-24	c 06	N69-39733 *
US-PATENT-CLASS-73-147	c 14	N70-40400 *	US-PATENT-CLASS-73-170R	c 06	N83-10040 *	US-PATENT-CLASS-73-28	c 14	N73-27376 *
US-PATENT-CLASS-73-147	c 14	N70-41366 *	US-PATENT-CLASS-73-170R	c 35	N84-28018 *	US-PATENT-CLASS-73-28	c 14	N73-30395 *
US-PATENT-CLASS-73-147	c 11	N71-15926 *	US-PATENT-CLASS-73-170R	c 19	N91-14412 *	US-PATENT-CLASS-73-28	c 35	N76-18401 *
US-PATENT-CLASS-73-147	c 09	N71-16086 *	US-PATENT-CLASS-73-170	c 14	N71-14996 *	US-PATENT-CLASS-73-28	c 35	N78-18390 *
US-PATENT-CLASS-73-147	c 12	N71-20436 *	US-PATENT-CLASS-73-170	c 17	N73-32415 *	US-PATENT-CLASS-73-290-R	c 35	N88-29150 *
US-PATENT-CLASS-73-147	c 09	N71-20916 *	US-PATENT-CLASS-73-178-R	c 06	N84-34443 *	US-PATENT-CLASS-73-290-V	c 35	N89-14407 *
US-PATENT-CLASS-73-147	c 11	N71-21481 *	US-PATENT-CLASS-73-178-R	c 06	N87-22678 *	US-PATENT-CLASS-73-290B	c 14	N72-11363 *
US-PATENT-CLASS-73-147	c 11	N71-23030 *	US-PATENT-CLASS-73-178-R	c 02	N88-23759 *	US-PATENT-CLASS-73-290	c 14	N71-10500 *
US-PATENT-CLASS-73-147	c 15	N71-27006 *	US-PATENT-CLASS-73-178-T	c 09	N90-20096 *	US-PATENT-CLASS-73-290	c 14	N71-21007 *
US-PATENT-CLASS-73-147	c 15	N71-28740 *	US-PATENT-CLASS-73-178R	c 35	N75-29381 *	US-PATENT-CLASS-73-295	c 23	N71-17802 *
US-PATENT-CLASS-73-147	c 11	N71-33612 *	US-PATENT-CLASS-73-178R	c 04	N77-19056 *	US-PATENT-CLASS-73-295	c 31	N76-14284 *
US-PATENT-CLASS-73-147	c 11	N72-17183 *	US-PATENT-CLASS-73-178R	c 37	N78-27424 *	US-PATENT-CLASS-73-29	c 14	N71-17701 *
US-PATENT-CLASS-73-147	c 14	N72-21407 *	US-PATENT-CLASS-73-178R	c 35	N79-26372 *	US-PATENT-CLASS-73-29	c 14	N71-20741 *
US-PATENT-CLASS-73-147	c 11	N72-22246 *	US-PATENT-CLASS-73-178R	c 06	N81-17057 *	US-PATENT-CLASS-73-301	c 12	N71-26387 *
US-PATENT-CLASS-73-147	c 11	N73-12264 *	US-PATENT-CLASS-73-178R	c 04	N81-21047 *	US-PATENT-CLASS-73-304-R	c 35	N88-29150 *
US-PATENT-CLASS-73-147	c 14	N73-13415 *	US-PATENT-CLASS-73-178R	c 18	N81-29152 *	US-PATENT-CLASS-73-304C	c 14	N71-29134 *
US-PATENT-CLASS-73-147	c 12	N73-25262 *	US-PATENT-CLASS-73-178R	c 06	N82-16075 *	US-PATENT-CLASS-73-304	c 14	N72-22442 *
US-PATENT-CLASS-73-147	c 12	N73-28144 *	US-PATENT-CLASS-73-178R	c 06	N83-10040 *	US-PATENT-CLASS-73-30	c 14	N70-41681 *
US-PATENT-CLASS-73-147	c 09	N74-17955 *	US-PATENT-CLASS-73-178R	c 06	N84-27733 *	US-PATENT-CLASS-73-32R	c 76	N75-12810 *
US-PATENT-CLASS-73-147	c 34	N74-27730 *	US-PATENT-CLASS-73-178R	c 47	N92-29148 *	US-PATENT-CLASS-73-32R	c 35	N84-28018 *
US-PATENT-CLASS-73-147	c 09	N75-12969 *	US-PATENT-CLASS-73-178T	c 06	N86-27280 *	US-PATENT-CLASS-73-32	c 14	N70-41330 *
US-PATENT-CLASS-73-147	c 09	N76-23273 *	US-PATENT-CLASS-73-178T	c 04	N91-31120 *	US-PATENT-CLASS-73-336.5	c 35	N78-25391 *
US-PATENT-CLASS-73-147	c 34	N76-27517 *	US-PATENT-CLASS-73-178	c 14	N70-36807 *	US-PATENT-CLASS-73-336.5	c 35	N85-29212 *
US-PATENT-CLASS-73-147	c 09	N77-10071 *	US-PATENT-CLASS-73-178	c 14	N70-40157 *	US-PATENT-CLASS-73-336.5	c 35	N87-22953 *
US-PATENT-CLASS-73-147	c 09	N78-31129 *	US-PATENT-CLASS-73-179	c 34	N85-21568 *	US-PATENT-CLASS-73-339	c 33	N73-27796 *
US-PATENT-CLASS-73-147	c 35	N79-14347 *	US-PATENT-CLASS-73-17	c 06	N71-24607 *	US-PATENT-CLASS-73-341	c 14	N71-15598 *
US-PATENT-CLASS-73-147	c 09	N79-21083 *	US-PATENT-CLASS-73-180	c 35	N78-14364 *	US-PATENT-CLASS-73-341	c 44	N82-16474 *
US-PATENT-CLASS-73-147	c 02	N80-20224 *	US-PATENT-CLASS-73-180	c 02	N80-28300 *	US-PATENT-CLASS-73-343R	c 52	N77-10780 *
US-PATENT-CLASS-73-147	c 06	N81-17057 *	US-PATENT-CLASS-73-180	c 35	N89-12841 *	US-PATENT-CLASS-73-343R	c 35	N80-18357 *
US-PATENT-CLASS-73-147	c 09	N82-11088 *	US-PATENT-CLASS-73-182	c 14	N73-13415 *	US-PATENT-CLASS-73-343	c 33	N71-16356 *
US-PATENT-CLASS-73-147	c 09	N82-23254 *	US-PATENT-CLASS-73-182	c 35	N74-32878 *	US-PATENT-CLASS-73-343	c 11	N71-21475 *
US-PATENT-CLASS-73-147	c 71	N83-17235 *	US-PATENT-CLASS-73-182	c 35	N76-14429 *	US-PATENT-CLASS-73-355R	c 14	N72-24472 *
US-PATENT-CLASS-73-147	c 44	N83-21503 *	US-PATENT-CLASS-73-182	c 02	N80-28300 *	US-PATENT-CLASS-73-355R	c 35	N80-18359 *
US-PATENT-CLASS-73-147	c 44	N83-21504 *	US-PATENT-CLASS-73-182	c 35	N92-21586 *	US-PATENT-CLASS-73-355	c 14	N71-27323 *
US-PATENT-CLASS-73-147	c 74	N83-21949 *	US-PATENT-CLASS-73-187	c 35	N85-20295 *	US-PATENT-CLASS-73-355	c 14	N72-28437 *
US-PATENT-CLASS-73-147	c 35	N84-22934 *	US-PATENT-CLASS-73-188	c 06	N80-18036 *	US-PATENT-CLASS-73-356	c 35	N75-25122 *
US-PATENT-CLASS-73-147	c 09	N84-34448 *	US-PATENT-CLASS-73-189	c 20	N71-16281 *	US-PATENT-CLASS-73-35	c 33	N72-27959 *
US-PATENT-CLASS-73-147	c 09	N85-21178 *	US-PATENT-CLASS-73-189	c 02	N71-23007 *	US-PATENT-CLASS-73-361	c 35	N81-26431 *
US-PATENT-CLASS-73-147	c 35	N86-32696 *	US-PATENT-CLASS-73-189	c 14	N71-23726 *	US-PATENT-CLASS-73-362AR	c 35	N77-27368 *
US-PATENT-CLASS-73-147	c 34	N87-21255 *	US-PATENT-CLASS-73-189	c 14	N73-13415 *	US-PATENT-CLASS-73-37.5	c 35	N86-32698 *
US-PATENT-CLASS-73-147	c 09	N87-25334 *	US-PATENT-CLASS-73-189	c 14	N73-25460 *	US-PATENT-CLASS-73-379	c 05	N73-27941 *
US-PATENT-CLASS-73-147	c 35	N87-28884 *	US-PATENT-CLASS-73-189	c 35	N76-24524 *	US-PATENT-CLASS-73-379	c 05	N73-30078 *
US-PATENT-CLASS-73-147	c 02	N88-23759 *	US-PATENT-CLASS-73-189	c 34	N76-27517 *	US-PATENT-CLASS-73-379	c 35	N75-15932 *
US-PATENT-CLASS-73-147	c 02	N89-12551 *	US-PATENT-CLASS-73-189	c 34	N77-27345 *	US-PATENT-CLASS-73-379	c 39	N83-20280 *
US-PATENT-CLASS-73-147	c 35	N89-12841 *	US-PATENT-CLASS-73-189	c 34	N79-12359 *	US-PATENT-CLASS-73-382	c 10	N71-13537 *
US-PATENT-CLASS-73-147	c 35	N89-14423 *	US-PATENT-CLASS-73-189	c 06	N80-18036 *	US-PATENT-CLASS-73-382	c 14	N71-17587 *
US-PATENT-CLASS-73-147	c 35	N90-17117 *	US-PATENT-CLASS-73-189	c 47	N84-28292 *	US-PATENT-CLASS-73-384	c 15	N70-37925 *
US-PATENT-CLASS-73-147	c 35	N90-23707 *	US-PATENT-CLASS-73-190H	c 35	N74-22095 *	US-PATENT-CLASS-73-388	c 35	N74-32878 *
US-PATENT-CLASS-73-147	c 09	N91-14356 *	US-PATENT-CLASS-73-190R	c 34	N74-27859 *	US-PATENT-CLASS-73-389	c 12	N71-24692 *
US-PATENT-CLASS-73-147	c 09	N91-14357 *	US-PATENT-CLASS-73-190R	c 35	N81-19426 *	US-PATENT-CLASS-73-38	c 18	N71-24934 *
US-PATENT-CLASS-73-147	c 35	N92-10185 *	US-PATENT-CLASS-73-190	c 33	N71-15641 *	US-PATENT-CLASS-73-398AR	c 52	N74-27566 *
US-PATENT-CLASS-73-147	c 35	N92-21586 *	US-PATENT-CLASS-73-190	c 14	N71-22989 *	US-PATENT-CLASS-73-398AR	c 52	N76-29496 *
US-PATENT-CLASS-73-147	c 02	N92-21588 *	US-PATENT-CLASS-73-190	c 33	N71-23085 *	US-PATENT-CLASS-73-398C	c 14	N72-22438 *
US-PATENT-CLASS-73-147	c 35	N92-21710 *	US-PATENT-CLASS-73-190	c 33	N71-29051 *	US-PATENT-CLASS-73-398C	c 33	N76-21390 *
US-PATENT-CLASS-73-149	c 14	N72-11363 *	US-PATENT-CLASS-73-194A	c 14	N72-17329 *	US-PATENT-CLASS-73-398	c 14	N70-34816 *
US-PATENT-CLASS-73-149	c 52	N74-10975 *	US-PATENT-CLASS-73-194EM	c 14	N73-32326 *	US-PATENT-CLASS-73-398	c 14	N71-21072 *
US-PATENT-CLASS-73-149	c 35	N91-15511 *	US-PATENT-CLASS-73-194EM	c 35	N74-21018 *	US-PATENT-CLASS-73-398	c 09	N71-24597 *
US-PATENT-CLASS-73-149	c 35	N91-21493 *	US-PATENT-CLASS-73-194E	c 14	N73-20478 *	US-PATENT-CLASS-73-398	c 14	N73-30394 *
US-PATENT-CLASS-73-149	c 35	N91-21495 *	US-PATENT-CLASS-73-194E	c 05	N73-32015 *	US-PATENT-CLASS-73-399	c 37	N76-18454 *
US-PATENT-CLASS-73-15.4	c 14	N71-17659 *	US-PATENT-CLASS-73-194F	c 14	N72-11365 *	US-PATENT-CLASS-73-3	c 34	N74-27730 *
US-PATENT-CLASS-73-15.4	c 35	N74-32879 *	US-PATENT-CLASS-73-194M	c 05	N73-32015 *	US-PATENT-CLASS-73-3	c 34	N86-12547 *
US-PATENT-CLASS-73-15.6	c 14	N70-35368 *	US-PATENT-CLASS-73-194M	c 35	N75-30503 *	US-PATENT-CLASS-73-4R	c 35	N74-13132 *
US-PATENT-CLASS-73-15.6	c 14	N71-24234 *	US-PATENT-CLASS-73-194R	c 34	N76-27517 *	US-PATENT-CLASS-73-4R	c 35	N79-14347 *
US-PATENT-CLASS-73-15.6	c 14	N71-26136 *	US-PATENT-CLASS-73-194VS	c 34	N79-12359 *	US-PATENT-CLASS-73-4R	c 35	N80-18358 *
US-PATENT-CLASS-73-15.6	c 32	N72-25877 *	US-PATENT-CLASS-73-194	c 14	N70-41994 *	US-PATENT-CLASS-73-4V	c 35	N74-15092 *
US-PATENT-CLASS-73-15.6	c 09	N74-19528 *	US-PATENT-CLASS-73-194	c 14	N71-23226 *	US-PATENT-CLASS-73-40.5A	c 35	N85-21597 *
US-PATENT-CLASS-73-15.6	c 35	N76-24523 *	US-PATENT-CLASS-73-194	c 12	N71-26546 *	US-PATENT-CLASS-73-40.5	c 14	N71-10779 *
US-PATENT-CLASS-73-15.6	c 35	N77-22450 *	US-PATENT-CLASS-73-195	c 35	N75-30503 *	US-PATENT-CLASS-73-40.7	c 15	N71-24910 *
US-PATENT-CLASS-73-15.6	c 39	N78-10493 *	US-PATENT-CLASS-73-198	c 14	N69-24257 *	US-PATENT-CLASS-73-40.7	c 14	N71-28992 *
US-PATENT-CLASS-73-15R	c 33	N72-25913 *	US-PATENT-CLASS-73-198	c 14	N72-17327 *	US-PATENT-CLASS-73-40.7	c 35	N74-32879 *
US-PATENT-CLASS-73-15R	c 14	N73-28486 *	US-PATENT-CLASS-73-1	c 10	N71-13545 *	US-PATENT-CLASS-73-40.7	c 35	N85-29213 *
US-PATENT-CLASS-73-15R	c 25	N74-18551 *	US-PATENT-CLASS-73-1	c 09	N71-22988 *	US-PATENT-CLASS-73-400	c 14	N71-23093 *
US-PATENT-CLASS-73-15R	c 31	N74-27900 *	US-PATENT-CLASS-73-204.11	c 35	N92-21710 *	US-PATENT-CLASS-73-400	c 14	N71-24232 *
US-PATENT-CLASS-73-15R	c 09	N77-27131 *	US-PATENT-CLASS-73-204	c 12	N71-17569 *	US-PATENT-CLASS-73-400	c 35	N79-33450 *
US-PATENT-CLASS-73-15R	c 74	N81-17887 *	US-PATENT-CLASS-73-204	c 35	N76-24524 *	US-PATENT-CLASS-73-401	c 14	N70-34820 *
US-PATENT-CLASS-73-150R	c 39	N86-20841 *	US-PATENT-CLASS-73-204	c 35	N77-20400 *	US-PATENT-CLASS-73-40	c 35	N75-15931 *
US-PATENT-CLASS-73-150R	c 35	N84-28018 *	US-PATENT-CLASS-73-204	c 52	N83-27577 *	US-PATENT-CLASS-73-40	c 35	N80-18358 *
US-PATENT-CLASS-73-155	c 46	N80-10709 *	US-PATENT-CLASS-73-205L	c 02	N80-20224 *	US-PATENT-CLASS-73-419	c 14	N71-22752 *
US-PATENT-CLASS-73-155	c 46	N80-24906 *	US-PATENT-CLASS-73-212	c 14	N70-36824 *	US-PATENT-CLASS-73-420	c 35	N74-13132 *
US-PATENT-CLASS-73-159	c 31	N79-11246 *	US-PATENT-CLASS-73-212	c 14	N73-13415 *	US-PATENT-CLASS-73-421.5R	c 13	N72-25323 *
US-PATENT-CLASS-73-15	c 14	N70-34156 *	US-PATENT-CLASS-73-212	c 35	N76-14429 *	US-PATENT-CLASS-73-421.5R	c 14	N73-30395 *
US-PATENT-CLASS-73-15	c 14	N71-15992 *	US-PATENT-CLASS-73-212	c 06	N80-18036 *	US-PATENT-CLASS-73-421.5R	c 52	N74-20728 *
US-PATENT-CLASS-73-15	c 14	N71-22964 *	US-PATENT-CLASS-73-221	c 35	N75-19611 *	US-PATENT-CLASS-73-421.5R	c 35	N76-18401 *
US-PATENT-CLASS-73-15	c 11	N71-24985 *	US-PATENT-CLASS-73-228	c 34	N77-27345 *	US-PATENT-CLASS-73-421.5R	c 35	N77-32456 *
US-PATENT-CLASS-73-15	c 11	N71-28629 *	US-PATENT-CLASS-73-23.1	c 06	N69-39936 *	US-PATENT-CLASS-73-421.5	c 14	N73-12444 *
US-PATENT-CLASS-73-161	c 11	N72-25288 *	US-PATENT-CLASS-73-23.1	c 06	N72-17094 *	US-PATENT-CLASS-73-421R	c 54	N76-14804 *
US-PATENT-CLASS-73-167	c 15	N84-16231 *	US-PATENT-CLASS-73-23.1	c 06	N72-25146 *	US-PATENT-CLASS-73-422GC	c 13	N72-25323 *
US-PATENT-CLASS-73-167	c 25	N91-32196 *	US-PATENT-CLASS-73-23.1	c 25	N76-18245 *	US-PATENT-CLASS-73-422TC	c 13	N72-25323 *
US-PATENT-CLASS-73-170A	c 35	N78-27384 *	US-PATENT-CLASS-73-23.1	c 23	N77-17161 *	US-PATENT-CLASS-73-422	c 14	N71-20435 *
US-PATENT-CLASS-73-170A	c 48	N80-18667 *	US-PATENT-CLASS-73-23	c 14	N71-10774 *	US-PATENT-CLASS-73-425.2	c 91	N76-30131 *
US-PATENT-CLASS-73-170R	c 07	N73-20175 *	US-PATENT-CLASS-73-23	c 05	N71-11202 *	US-PATENT-CLASS-73-425.4R	c 35	N78-27384 *
US-PATENT-CLASS-73-170R	c 14	N73-28487 *	US-PATENT-CLASS-73-23	c 52	N74-20728 *	US-PATENT-CLASS-73-425.6	c 15	N72-21465 *
US-PATENT-CLASS-73-170R	c 14	N73-32327 *	US-PATENT-CLASS-73-23	c 35	N75-29380 *	US-PATENT-CLASS-73-432.1	c 34	N90-19534 *
US-PATENT-CLASS-73-170R	c 33	N74-27862 *	US-PATENT-CLASS-73-23	c 25	N78-15210 *	US-PATENT-CLASS-73-432.1	c 34	N91-31596 *

US-PATENT-CLASS-73-432PS	c 76	N75-12810 *	US-PATENT-CLASS-73-597	c 33	N83-16626 *	US-PATENT-CLASS-73-810	c 39	N87-25601 *
US-PATENT-CLASS-73-432PS	c 35	N75-33367 *	US-PATENT-CLASS-73-597	c 52	N83-27578 *	US-PATENT-CLASS-73-810	c 35	N88-23967 *
US-PATENT-CLASS-73-432PS	c 35	N78-18390 *	US-PATENT-CLASS-73-597	c 32	N87-14559 *	US-PATENT-CLASS-73-818	c 35	N83-21312 *
US-PATENT-CLASS-73-432R	c 33	N73-27796 *	US-PATENT-CLASS-73-599	c 71	N87-21652 *	US-PATENT-CLASS-73-818	c 39	N83-32081 *
US-PATENT-CLASS-73-432R	c 14	N73-28487 *	US-PATENT-CLASS-73-599	c 71	N87-21653 *	US-PATENT-CLASS-73-81	c 14	N73-32321 *
US-PATENT-CLASS-73-432R	c 91	N76-30131 *	US-PATENT-CLASS-73-601	c 39	N92-28757 *	US-PATENT-CLASS-73-822	c 39	N83-32081 *
US-PATENT-CLASS-73-432R	c 35	N77-19385 *	US-PATENT-CLASS-73-603	c 38	N78-32447 *	US-PATENT-CLASS-73-826	c 14	N91-27175 *
US-PATENT-CLASS-73-432R	c 35	N78-18390 *	US-PATENT-CLASS-73-60	c 14	N73-14429 *	US-PATENT-CLASS-73-827	c 39	N86-20841 *
US-PATENT-CLASS-73-432R	c 15	N84-16231 *	US-PATENT-CLASS-73-61.1C	c 23	N77-17161 *	US-PATENT-CLASS-73-82	c 43	N79-25443 *
US-PATENT-CLASS-73-432SD	c 11	N72-27262 *	US-PATENT-CLASS-73-61R	c 35	N78-27384 *	US-PATENT-CLASS-73-82	c 43	N80-14423 *
US-PATENT-CLASS-73-432SD	c 11	N73-20267 *	US-PATENT-CLASS-73-615	c 32	N87-14559 *	US-PATENT-CLASS-73-82	c 43	N80-23711 *
US-PATENT-CLASS-73-432SD	c 35	N77-18417 *	US-PATENT-CLASS-73-61	c 14	N71-26199 *	US-PATENT-CLASS-73-831	c 35	N85-34375 *
US-PATENT-CLASS-73-432T	c 74	N84-11921 *	US-PATENT-CLASS-73-620	c 35	N84-22928 *	US-PATENT-CLASS-73-831	c 37	N90-20409 *
US-PATENT-CLASS-73-432	c 11	N70-34786 *	US-PATENT-CLASS-73-626	c 52	N79-26771 *	US-PATENT-CLASS-73-833	c 24	N84-27829 *
US-PATENT-CLASS-73-432	c 11	N70-38675 *	US-PATENT-CLASS-73-629	c 33	N83-16626 *	US-PATENT-CLASS-73-834	c 37	N88-14361 *
US-PATENT-CLASS-73-432	c 05	N70-42000 *	US-PATENT-CLASS-73-630	c 39	N78-15512 *	US-PATENT-CLASS-73-845	c 35	N90-23712 *
US-PATENT-CLASS-73-432	c 31	N71-16221 *	US-PATENT-CLASS-73-631	c 71	N91-27914 *	US-PATENT-CLASS-73-84	c 14	N71-22765 *
US-PATENT-CLASS-73-432	c 27	N71-16223 *	US-PATENT-CLASS-73-632	c 38	N79-14398 *	US-PATENT-CLASS-73-84	c 14	N73-19420 *
US-PATENT-CLASS-73-432	c 30	N71-17788 *	US-PATENT-CLASS-73-633	c 52	N79-14751 *	US-PATENT-CLASS-73-84	c 35	N77-27367 *
US-PATENT-CLASS-73-432	c 14	N71-23227 *	US-PATENT-CLASS-73-633	c 35	N84-22928 *	US-PATENT-CLASS-73-852	c 37	N91-21540 *
US-PATENT-CLASS-73-432	c 10	N71-26339 *	US-PATENT-CLASS-73-64.4	c 34	N83-31993 *	US-PATENT-CLASS-73-856	c 39	N83-32081 *
US-PATENT-CLASS-73-432	c 11	N71-28629 *	US-PATENT-CLASS-73-641	c 38	N79-14398 *	US-PATENT-CLASS-73-856	c 24	N84-27829 *
US-PATENT-CLASS-73-432	c 14	N71-30026 *	US-PATENT-CLASS-73-644	c 38	N79-14398 *	US-PATENT-CLASS-73-856	c 35	N85-34375 *
US-PATENT-CLASS-73-432	c 35	N74-21062 *	US-PATENT-CLASS-73-644	c 52	N79-14751 *	US-PATENT-CLASS-73-856	c 09	N87-25334 *
US-PATENT-CLASS-73-45.5	c 12	N71-17573 *	US-PATENT-CLASS-73-646	c 71	N78-14867 *	US-PATENT-CLASS-73-85	c 14	N72-33377 *
US-PATENT-CLASS-73-456	c 35	N78-24515 *	US-PATENT-CLASS-73-646	c 35	N84-12445 *	US-PATENT-CLASS-73-860	c 39	N83-32081 *
US-PATENT-CLASS-73-462	c 35	N87-14670 *	US-PATENT-CLASS-73-647	c 32	N79-24203 *	US-PATENT-CLASS-73-860	c 37	N90-20409 *
US-PATENT-CLASS-73-468	c 37	N84-28082 *	US-PATENT-CLASS-73-655	c 35	N80-14371 *	US-PATENT-CLASS-73-861.05	c 33	N83-31954 *
US-PATENT-CLASS-73-46	c 35	N75-19612 *	US-PATENT-CLASS-73-657	c 35	N85-30282 *	US-PATENT-CLASS-73-861.05	c 02	N92-34172 *
US-PATENT-CLASS-73-473	c 35	N87-14670 *	US-PATENT-CLASS-73-658	c 35	N84-12445 *	US-PATENT-CLASS-73-861.07	c 34	N86-12547 *
US-PATENT-CLASS-73-477	c 35	N87-14670 *	US-PATENT-CLASS-73-658	c 37	N91-14607 *	US-PATENT-CLASS-73-861.58	c 35	N86-25752 *
US-PATENT-CLASS-73-49.2	c 32	N71-24285 *	US-PATENT-CLASS-73-65	c 14	N71-22992 *	US-PATENT-CLASS-73-861.65	c 02	N80-28300 *
US-PATENT-CLASS-73-49.2	c 35	N75-15931 *	US-PATENT-CLASS-73-661	c 35	N80-14371 *	US-PATENT-CLASS-73-861.65	c 35	N89-14423 *
US-PATENT-CLASS-73-49.2	c 35	N75-19612 *	US-PATENT-CLASS-73-663	c 14	N91-21176 *	US-PATENT-CLASS-73-861.66	c 02	N80-28300 *
US-PATENT-CLASS-73-49.3	c 14	N71-26672 *	US-PATENT-CLASS-73-67.1	c 35	N75-12271 *	US-PATENT-CLASS-73-861.71	c 47	N84-28292 *
US-PATENT-CLASS-73-49.8	c 14	N69-27503 *	US-PATENT-CLASS-73-67.2	c 11	N69-21540 *	US-PATENT-CLASS-73-861	c 34	N81-26402 *
US-PATENT-CLASS-73-49.8	c 15	N71-29132 *	US-PATENT-CLASS-73-67.2	c 15	N71-18132 *	US-PATENT-CLASS-73-862.01	c 35	N86-19581 *
US-PATENT-CLASS-73-49.8	c 14	N81-21175 *	US-PATENT-CLASS-73-67.2	c 14	N72-22440 *	US-PATENT-CLASS-73-862.04	c 35	N86-32696 *
US-PATENT-CLASS-73-490	c 04	N81-21047 *	US-PATENT-CLASS-73-67.2	c 35	N78-17358 *	US-PATENT-CLASS-73-862.04	c 35	N92-10185 *
US-PATENT-CLASS-73-492	c 14	N72-25411 *	US-PATENT-CLASS-73-67.3	c 32	N72-26910 *	US-PATENT-CLASS-73-862.08	c 54	N82-26987 *
US-PATENT-CLASS-73-493	c 17	N76-29347 *	US-PATENT-CLASS-73-67.5R	c 38	N74-15395 *	US-PATENT-CLASS-73-862.33	c 35	N91-17350 *
US-PATENT-CLASS-73-497	c 14	N71-30265 *	US-PATENT-CLASS-73-67.7	c 39	N77-28511 *	US-PATENT-CLASS-73-862.36	c 35	N91-17350 *
US-PATENT-CLASS-73-497	c 35	N74-15094 *	US-PATENT-CLASS-73-67.8S	c 35	N74-10415 *	US-PATENT-CLASS-73-862.54	c 37	N83-36482 *
US-PATENT-CLASS-73-4	c 14	N71-18481 *	US-PATENT-CLASS-73-67.8S	c 38	N74-15130 *	US-PATENT-CLASS-73-862.54	c 35	N85-20294 *
US-PATENT-CLASS-73-4	c 14	N71-23036 *	US-PATENT-CLASS-73-67.9	c 52	N74-20726 *	US-PATENT-CLASS-73-862.54	c 35	N86-19581 *
US-PATENT-CLASS-73-4	c 14	N71-23755 *	US-PATENT-CLASS-73-683.31	c 35	N81-29407 *	US-PATENT-CLASS-73-862.59	c 39	N92-34174 *
US-PATENT-CLASS-73-4	c 14	N73-30390 *	US-PATENT-CLASS-73-684.52	c 35	N81-29407 *	US-PATENT-CLASS-73-862.61	c 35	N86-32696 *
US-PATENT-CLASS-73-502	c 35	N86-32695 *	US-PATENT-CLASS-73-69	c 71	N74-31148 *	US-PATENT-CLASS-73-862.61	c 35	N90-17117 *
US-PATENT-CLASS-73-504	c 04	N81-21047 *	US-PATENT-CLASS-73-70.2	c 14	N71-10616 *	US-PATENT-CLASS-73-862.65	c 35	N84-28015 *
US-PATENT-CLASS-73-505	c 23	N71-16098 *	US-PATENT-CLASS-73-705	c 36	N85-21639 *	US-PATENT-CLASS-73-862.65	c 35	N92-10185 *
US-PATENT-CLASS-73-505	c 12	N75-24774 *	US-PATENT-CLASS-73-705	c 74	N92-33017 *	US-PATENT-CLASS-73-863.11	c 35	N83-29650 *
US-PATENT-CLASS-73-505	c 71	N78-10837 *	US-PATENT-CLASS-73-708	c 34	N85-21568 *	US-PATENT-CLASS-73-863.11	c 37	N85-29286 *
US-PATENT-CLASS-73-505	c 71	N79-20827 *	US-PATENT-CLASS-73-708	c 35	N92-21586 *	US-PATENT-CLASS-73-863.21	c 35	N86-26595 *
US-PATENT-CLASS-73-505	c 71	N81-15767 *	US-PATENT-CLASS-73-708	c 35	N92-29097 *	US-PATENT-CLASS-73-863.22	c 51	N91-31755 *
US-PATENT-CLASS-73-505	c 71	N83-32515 *	US-PATENT-CLASS-73-71.2	c 14	N70-34794 *	US-PATENT-CLASS-73-863.23	c 34	N92-16241 *
US-PATENT-CLASS-73-505	c 71	N83-32516 *	US-PATENT-CLASS-73-71.3	c 35	N74-15146 *	US-PATENT-CLASS-73-863.31	c 45	N83-25217 *
US-PATENT-CLASS-73-505	c 71	N83-36846 *	US-PATENT-CLASS-73-71.4	c 32	N71-16428 *	US-PATENT-CLASS-73-863.31	c 35	N86-26595 *
US-PATENT-CLASS-73-505	c 71	N84-23233 *	US-PATENT-CLASS-73-71.4	c 32	N71-26681 *	US-PATENT-CLASS-73-863.41	c 51	N91-31755 *
US-PATENT-CLASS-73-505	c 71	N85-22105 *	US-PATENT-CLASS-73-71.5R	c 71	N74-31148 *	US-PATENT-CLASS-73-863.72	c 35	N86-26595 *
US-PATENT-CLASS-73-505	c 71	N85-29693 *	US-PATENT-CLASS-73-71.5U	c 38	N74-15395 *	US-PATENT-CLASS-73-863.83	c 45	N83-25217 *
US-PATENT-CLASS-73-505	c 35	N86-20752 *	US-PATENT-CLASS-73-71.6	c 14	N71-27185 *	US-PATENT-CLASS-73-863.85	c 51	N91-31755 *
US-PATENT-CLASS-73-505	c 26	N86-32551 *	US-PATENT-CLASS-73-71.6	c 14	N72-27412 *	US-PATENT-CLASS-73-863.86	c 35	N85-29213 *
US-PATENT-CLASS-73-505	c 71	N88-24241 *	US-PATENT-CLASS-73-71.6	c 14	N73-13416 *	US-PATENT-CLASS-73-863.86	c 51	N91-31755 *
US-PATENT-CLASS-73-505	c 71	N89-13236 *	US-PATENT-CLASS-73-71.6	c 14	N73-19421 *	US-PATENT-CLASS-73-864.34	c 35	N86-26595 *
US-PATENT-CLASS-73-505	c 35	N89-14422 *	US-PATENT-CLASS-73-71.6	c 35	N77-18417 *	US-PATENT-CLASS-73-864.41	c 35	N84-28018 *
US-PATENT-CLASS-73-505	c 71	N90-12289 *	US-PATENT-CLASS-73-71.4	c 35	N79-14347 *	US-PATENT-CLASS-73-864.52	c 35	N85-29213 *
US-PATENT-CLASS-73-505	c 71	N91-14807 *	US-PATENT-CLASS-73-71.4	c 34	N79-24285 *	US-PATENT-CLASS-73-864.63	c 45	N83-25217 *
US-PATENT-CLASS-73-510	c 18	N81-29152 *	US-PATENT-CLASS-73-71.4	c 35	N84-14491 *	US-PATENT-CLASS-73-864.81	c 37	N85-29286 *
US-PATENT-CLASS-73-515	c 14	N72-25410 *	US-PATENT-CLASS-73-721	c 35	N79-14347 *	US-PATENT-CLASS-73-865.6	c 09	N91-21157 *
US-PATENT-CLASS-73-517B	c 35	N74-15094 *	US-PATENT-CLASS-73-721	c 35	N84-22934 *	US-PATENT-CLASS-73-865.6	c 14	N91-21176 *
US-PATENT-CLASS-73-517R	c 17	N76-29347 *	US-PATENT-CLASS-73-721	c 35	N92-29097 *	US-PATENT-CLASS-73-866.4	c 14	N91-21176 *
US-PATENT-CLASS-73-517	c 11	N70-38196 *	US-PATENT-CLASS-73-724	c 32	N79-24203 *	US-PATENT-CLASS-73-86	c 14	N69-39975 *
US-PATENT-CLASS-73-517	c 14	N70-41682 *	US-PATENT-CLASS-73-724	c 52	N80-18691 *	US-PATENT-CLASS-73-86	c 33	N71-21586 *
US-PATENT-CLASS-73-517	c 14	N71-15969 *	US-PATENT-CLASS-73-724	c 33	N82-26572 *	US-PATENT-CLASS-73-86	c 33	N73-27796 *
US-PATENT-CLASS-73-521	c 14	N72-25410 *	US-PATENT-CLASS-73-727	c 35	N92-29097 *	US-PATENT-CLASS-73-86	c 34	N74-15652 *
US-PATENT-CLASS-73-521	c 35	N86-32695 *	US-PATENT-CLASS-73-753	c 35	N85-21597 *	US-PATENT-CLASS-73-88.5R	c 15	N72-17452 *
US-PATENT-CLASS-73-557	c 35	N75-19614 *	US-PATENT-CLASS-73-756	c 35	N78-24515 *	US-PATENT-CLASS-73-88.5R	c 32	N73-26910 *
US-PATENT-CLASS-73-557	c 07	N76-27232 *	US-PATENT-CLASS-73-756	c 35	N79-14347 *	US-PATENT-CLASS-73-88.5R	c 52	N74-27864 *
US-PATENT-CLASS-73-56	c 35	N80-18357 *	US-PATENT-CLASS-73-756	c 35	N84-22934 *	US-PATENT-CLASS-73-88.5R	c 35	N76-14430 *
US-PATENT-CLASS-73-571	c 71	N90-12289 *	US-PATENT-CLASS-73-756	c 35	N87-28884 *	US-PATENT-CLASS-73-88.5SD	c 33	N76-19338 *
US-PATENT-CLASS-73-571	c 33	N92-33021 *	US-PATENT-CLASS-73-756	c 35	N92-29097 *	US-PATENT-CLASS-73-88.5	c 14	N70-34705 *
US-PATENT-CLASS-73-579	c 39	N78-15512 *	US-PATENT-CLASS-73-75	c 35	N85-34373 *	US-PATENT-CLASS-73-88.5	c 14	N70-34799 *
US-PATENT-CLASS-73-579	c 35	N79-10390 *	US-PATENT-CLASS-73-761	c 33	N83-16626 *	US-PATENT-CLASS-73-88.5	c 14	N71-17656 *
US-PATENT-CLASS-73-579	c 33	N83-16626 *	US-PATENT-CLASS-73-761	c 39	N92-34174 *	US-PATENT-CLASS-73-88.5	c 14	N71-21091 *
US-PATENT-CLASS-73-579	c 27	N85-20126 *	US-PATENT-CLASS-73-76	c 06	N72-17095 *	US-PATENT-CLASS-73-88.5	c 14	N71-23087 *
US-PATENT-CLASS-73-57	c 14	N71-17584 *	US-PATENT-CLASS-73-770	c 39	N79-22537 *	US-PATENT-CLASS-73-88.5	c 14	N71-24233 *
US-PATENT-CLASS-73-57	c 14	N73-14429 *	US-PATENT-CLASS-73-781	c 52	N80-27072 *	US-PATENT-CLASS-73-88.5	c 09	N72-22200 *
US-PATENT-CLASS-73-582	c 27	N85-20126 *	US-PATENT-CLASS-73-794	c 35	N88-23967 *	US-PATENT-CLASS-73-88.5	c 33	N75-31329 *
US-PATENT-CLASS-73-583	c 71	N81-21652 *	US-PATENT-CLASS-73-794	c 24	N91-14430 *	US-PATENT-CLASS-73-88.5	c 38	N76-28563 *
US-PATENT-CLASS-73-587	c 35	N88-23966 *	US-PATENT-CLASS-73-799	c 35	N90-23712 *	US-PATENT-CLASS-73-88A	c 32	N73-20740 *
US-PATENT-CLASS-73-588	c 37	N84-33807 *	US-PATENT-CLASS-73-79	c 14	N71-26161 *	US-PATENT-CLASS-73-88R	c 39	N78-15512 *
US-PATENT-CLASS-73-588	c 27	N85-20126 *	US-PATENT-CLASS-73-7	c 25	N86-19413 *	US-PATENT-CLASS-73-88R	c 35	N74-13129 *
US-PATENT-CLASS-73-589	c 35	N79-10390 *	US-PATENT-CLASS-73-801	c 35	N88-23966 *	US-PATENT-CLASS-73-88R	c 35	N77-22449 *
US-PATENT-CLASS-73-589	c 35	N84-22933 *	US-PATENT-CLASS-73-801	c 39	N92-29155 *	US-PATENT-CLASS-73-88R	c 39	N77-28511 *
US-PATENT-CLASS-73-589	c 71	N87-21652 *	US-PATENT-CLASS-73-809	c 39	N87-25601 *	US-PATENT-CLASS-73-88	c 32	N71-17645 *
US-PATENT-CLASS-73-594	c 35	N84-22933 *	US-PATENT-CLASS-73-810	c 39	N79-22537 *	US-PATENT-CLASS-73-90	c 32	N70-42003 *

US-PATENT-CLASS-73-90	c 32	N71-25360 *	US-PATENT-CLASS-74-758	c 37	N84-28084 *	US-PATENT-CLASS-788-704	c 36	N79-18307 *
US-PATENT-CLASS-73-90	c 14	N73-20476 *	US-PATENT-CLASS-74-764	c 37	N79-20377 *	US-PATENT-CLASS-8-DIG.12	c 27	N80-26446 *
US-PATENT-CLASS-73-91	c 14	N73-20476 *	US-PATENT-CLASS-74-800	c 37	N78-17385 *	US-PATENT-CLASS-8-DIG.18	c 27	N80-26446 *
US-PATENT-CLASS-73-91	c 32	N73-26910 *	US-PATENT-CLASS-74-812	c 37	N84-28084 *	US-PATENT-CLASS-8-DIG.9	c 25	N86-25428 *
US-PATENT-CLASS-73-91	c 09	N74-19528 *	US-PATENT-CLASS-74-81	c 37	N78-16369 *	US-PATENT-CLASS-8-115.5	c 27	N80-26446 *
US-PATENT-CLASS-73-91	c 39	N78-10493 *	US-PATENT-CLASS-74-820	c 37	N75-13266 *	US-PATENT-CLASS-8-150	c 09	N82-29330 *
US-PATENT-CLASS-73-94	c 14	N73-32323 *	US-PATENT-CLASS-74-83	c 37	N78-16369 *	US-PATENT-CLASS-8-3	c 51	N77-27677 *
US-PATENT-CLASS-73-95	c 15	N71-24834 *	US-PATENT-CLASS-74-87	c 35	N92-33010 *	US-PATENT-CLASS-8-94.11	c 51	N77-27677 *
US-PATENT-CLASS-73-95	c 14	N72-11364 *	US-PATENT-CLASS-74-89.15	c 15	N71-26635 *	US-PATENT-CLASS-8-94.12	c 18	N71-15545 *
US-PATENT-CLASS-73-95	c 35	N76-18400 *	US-PATENT-CLASS-74-89.15	c 15	N72-21462 *	US-PATENT-CLASS-81-119	c 37	N79-14383 *
US-PATENT-CLASS-73-95	c 35	N77-22450 *	US-PATENT-CLASS-74-89.18	c 15	N87-21304 *	US-PATENT-CLASS-81-177G	c 37	N85-21649 *
US-PATENT-CLASS-73-95	c 31	N79-11246 *	US-PATENT-CLASS-74-89	c 37	N71-23809 *	US-PATENT-CLASS-81-1808	c 37	N79-14383 *
US-PATENT-CLASS-73-97	c 14	N71-15600 *	US-PATENT-CLASS-74-89	c 37	N81-33483 *	US-PATENT-CLASS-81-31R	c 15	N71-29133 *
US-PATENT-CLASS-73-99	c 14	N71-10781 *	US-PATENT-CLASS-74-96	c 37	N77-22482 *	US-PATENT-CLASS-81-55	c 37	N83-36482 *
US-PATENT-CLASS-73-9	c 14	N71-22995 *	US-PATENT-CLASS-75-5B	c 17	N72-22530 *	US-PATENT-CLASS-81-56	c 37	N76-20480 *
US-PATENT-CLASS-73-9	c 35	N76-31489 *	US-PATENT-CLASS-75-DIG.1	c 18	N72-25539 *	US-PATENT-CLASS-81-57.31	c 37	N76-20480 *
US-PATENT-CLASS-73-9	c 15	N84-16231 *	US-PATENT-CLASS-75-DIG.1	c 37	N75-26371 *	US-PATENT-CLASS-81-57.38	c 15	N73-30457 *
US-PATENT-CLASS-74-100R	c 37	N78-31426 *	US-PATENT-CLASS-75-5BB	c 15	N72-25448 *	US-PATENT-CLASS-81-57.38	c 37	N83-36482 *
US-PATENT-CLASS-74-100	c 15	N71-24045 *	US-PATENT-CLASS-75-122.7	c 37	N77-19458 *	US-PATENT-CLASS-81-63.1	c 15	N71-17805 *
US-PATENT-CLASS-74-105	c 09	N72-22195 *	US-PATENT-CLASS-75-124	c 26	N78-18182 *	US-PATENT-CLASS-81-9.5R	c 37	N79-10419 *
US-PATENT-CLASS-74-110	c 44	N83-14693 *	US-PATENT-CLASS-75-124	c 26	N80-32484 *	US-PATENT-CLASS-81-90B	c 37	N79-14383 *
US-PATENT-CLASS-74-126	c 15	N71-21529 *	US-PATENT-CLASS-75-126D	c 26	N78-18182 *	US-PATENT-CLASS-82-1.2	c 37	N81-14319 *
US-PATENT-CLASS-74-18.1	c 37	N82-24493 *	US-PATENT-CLASS-75-126F	c 26	N78-18182 *	US-PATENT-CLASS-82-1C	c 37	N81-14319 *
US-PATENT-CLASS-74-18.2	c 11	N71-27036 *	US-PATENT-CLASS-75-128G	c 26	N78-18182 *	US-PATENT-CLASS-82-14	c 15	N71-22722 *
US-PATENT-CLASS-74-18.2	c 37	N82-24493 *	US-PATENT-CLASS-75-128T	c 26	N78-18182 *	US-PATENT-CLASS-82-24R	c 14	N72-16283 *
US-PATENT-CLASS-74-217R	c 37	N74-23070 *	US-PATENT-CLASS-75-134D	c 76	N79-16678 *	US-PATENT-CLASS-82-36F	c 37	N81-14319 *
US-PATENT-CLASS-74-25	c 37	N92-33031 *	US-PATENT-CLASS-75-135	c 18	N73-32437 *	US-PATENT-CLASS-82-90	c 37	N85-21650 *
US-PATENT-CLASS-74-2	c 15	N71-24600 *	US-PATENT-CLASS-75-135	c 24	N77-27187 *	US-PATENT-CLASS-83-152	c 76	N80-18951 *
US-PATENT-CLASS-74-2	c 31	N73-14855 *	US-PATENT-CLASS-75-135	c 26	N80-23419 *	US-PATENT-CLASS-83-203	c 54	N91-26747 *
US-PATENT-CLASS-74-384	c 37	N76-15457 *	US-PATENT-CLASS-75-138	c 26	N80-23419 *	US-PATENT-CLASS-83-206	c 54	N91-26747 *
US-PATENT-CLASS-74-385	c 07	N78-17056 *	US-PATENT-CLASS-75-139	c 24	N77-27187 *	US-PATENT-CLASS-83-277	c 54	N91-26747 *
US-PATENT-CLASS-74-409	c 15	N71-21744 *	US-PATENT-CLASS-75-142	c 17	N71-20743 *	US-PATENT-CLASS-83-282	c 54	N91-26747 *
US-PATENT-CLASS-74-417	c 07	N78-17056 *	US-PATENT-CLASS-75-170	c 17	N71-15644 *	US-PATENT-CLASS-83-451	c 37	N77-14478 *
US-PATENT-CLASS-74-417	c 37	N81-14318 *	US-PATENT-CLASS-75-170	c 17	N71-16025 *	US-PATENT-CLASS-83-452	c 39	N74-13131 *
US-PATENT-CLASS-74-417	c 37	N81-17432 *	US-PATENT-CLASS-75-170	c 17	N71-23248 *	US-PATENT-CLASS-83-467R	c 37	N77-14478 *
US-PATENT-CLASS-74-424.8-R	c 35	N82-21304 *	US-PATENT-CLASS-75-170	c 17	N72-22535 *	US-PATENT-CLASS-83-467	c 15	N71-22798 *
US-PATENT-CLASS-74-424.8B	c 37	N85-20338 *	US-PATENT-CLASS-75-170	c 37	N77-19458 *	US-PATENT-CLASS-83-522	c 15	N72-27485 *
US-PATENT-CLASS-74-424.8VA	c 37	N75-15050 *	US-PATENT-CLASS-75-170	c 26	N77-20201 *	US-PATENT-CLASS-83-562	c 15	N72-27485 *
US-PATENT-CLASS-74-424.8VA	c 37	N85-20338 *	US-PATENT-CLASS-75-170	c 26	N77-32279 *	US-PATENT-CLASS-83-563	c 15	N72-27485 *
US-PATENT-CLASS-74-424.8	c 15	N71-26635 *	US-PATENT-CLASS-75-170	c 26	N77-32280 *	US-PATENT-CLASS-83-588	c 15	N72-27485 *
US-PATENT-CLASS-74-425	c 37	N80-32716 *	US-PATENT-CLASS-75-170	c 26	N78-18183 *	US-PATENT-CLASS-83-602	c 39	N74-13131 *
US-PATENT-CLASS-74-436	c 37	N75-13266 *	US-PATENT-CLASS-75-171	c 17	N70-33283 *	US-PATENT-CLASS-83-614	c 54	N91-26747 *
US-PATENT-CLASS-74-437	c 37	N92-33031 *	US-PATENT-CLASS-75-171	c 17	N70-36616 *	US-PATENT-CLASS-83-649	c 54	N91-26747 *
US-PATENT-CLASS-74-441	c 35	N87-21304 *	US-PATENT-CLASS-75-171	c 17	N71-16026 *	US-PATENT-CLASS-83-664	c 37	N85-21650 *
US-PATENT-CLASS-74-458	c 35	N87-21304 *	US-PATENT-CLASS-75-171	c 17	N73-32415 *	US-PATENT-CLASS-83-676	c 37	N85-21650 *
US-PATENT-CLASS-74-468	c 15	N71-24984 *	US-PATENT-CLASS-75-172	c 17	N71-23365 *	US-PATENT-CLASS-83-820	c 37	N80-29703 *
US-PATENT-CLASS-74-468	c 35	N87-21304 *	US-PATENT-CLASS-75-173	c 26	N75-27126 *	US-PATENT-CLASS-83-870	c 76	N80-18951 *
US-PATENT-CLASS-74-469	c 15	N72-21463 *	US-PATENT-CLASS-75-173	c 26	N75-27127 *	US-PATENT-CLASS-83-8	c 15	N72-27485 *
US-PATENT-CLASS-74-469	c 15	N72-28495 *	US-PATENT-CLASS-75-178R	c 04	N76-20114 *	US-PATENT-CLASS-83-917	c 39	N74-13131 *
US-PATENT-CLASS-74-471XY	c 54	N75-27760 *	US-PATENT-CLASS-75-178R	c 26	N80-23419 *	US-PATENT-CLASS-85-1	c 15	N72-22488 *
US-PATENT-CLASS-74-471XY	c 33	N92-29153 *	US-PATENT-CLASS-75-20F	c 15	N72-11387 *	US-PATENT-CLASS-85-33	c 15	N71-15922 *
US-PATENT-CLASS-74-471	c 05	N70-41581 *	US-PATENT-CLASS-75-200	c 26	N74-10521 *	US-PATENT-CLASS-85-33	c 15	N71-21489 *
US-PATENT-CLASS-74-471	c 03	N70-42073 *	US-PATENT-CLASS-75-200	c 37	N74-13179 *	US-PATENT-CLASS-85-3	c 15	N71-17653 *
US-PATENT-CLASS-74-471	c 15	N71-20740 *	US-PATENT-CLASS-75-200	c 24	N75-13032 *	US-PATENT-CLASS-85-58	c 15	N72-11385 *
US-PATENT-CLASS-74-479	c 08	N82-24205 *	US-PATENT-CLASS-75-200	c 37	N75-26371 *	US-PATENT-CLASS-85-7	c 15	N71-23254 *
US-PATENT-CLASS-74-479	c 37	N91-14616 *	US-PATENT-CLASS-75-200	c 24	N80-33482 *	US-PATENT-CLASS-859R	c 27	N81-15104 *
US-PATENT-CLASS-74-479	c 37	N92-33634 *	US-PATENT-CLASS-75-202	c 17	N71-15468 *	US-PATENT-CLASS-86-1R	c 28	N77-10213 *
US-PATENT-CLASS-74-480R	c 05	N75-12930 *	US-PATENT-CLASS-75-203	c 27	N79-14213 *	US-PATENT-CLASS-86-1R	c 20	N77-17143 *
US-PATENT-CLASS-74-480R	c 08	N82-24205 *	US-PATENT-CLASS-75-204	c 18	N71-22894 *	US-PATENT-CLASS-86-1	c 28	N71-26779 *
US-PATENT-CLASS-74-5.12	c 31	N71-26537 *	US-PATENT-CLASS-75-205	c 27	N79-14213 *	US-PATENT-CLASS-86-20.2	c 28	N71-26779 *
US-PATENT-CLASS-74-5.22	c 21	N73-13644 *	US-PATENT-CLASS-75-206	c 15	N72-25448 *	US-PATENT-CLASS-86-20R	c 20	N77-17143 *
US-PATENT-CLASS-74-5.34	c 04	N76-26175 *	US-PATENT-CLASS-75-206	c 27	N79-14213 *	US-PATENT-CLASS-88-14	c 14	N70-34298 *
US-PATENT-CLASS-74-5.34	c 06	N83-33882 *	US-PATENT-CLASS-75-208R	c 37	N75-26371 *	US-PATENT-CLASS-88-14	c 14	N70-40003 *
US-PATENT-CLASS-74-5.47	c 21	N71-23289 *	US-PATENT-CLASS-75-208	c 18	N72-25539 *	US-PATENT-CLASS-88-14	c 14	N70-41946 *
US-PATENT-CLASS-74-5.5	c 35	N74-28097 *	US-PATENT-CLASS-75-211	c 18	N72-25539 *	US-PATENT-CLASS-88-14	c 14	N70-41946 *
US-PATENT-CLASS-74-5.5	c 37	N84-28082 *	US-PATENT-CLASS-75-212	c 37	N75-26371 *	US-PATENT-CLASS-88-14	c 09	N71-22999 *
US-PATENT-CLASS-74-5.6D	c 33	N85-29142 *	US-PATENT-CLASS-75-212	c 27	N79-14213 *	US-PATENT-CLASS-88-16	c 14	N70-33254 *
US-PATENT-CLASS-74-5.6	c 35	N74-15094 *	US-PATENT-CLASS-75-213	c 15	N72-25448 *	US-PATENT-CLASS-88-1	c 21	N70-35427 *
US-PATENT-CLASS-74-5.7	c 35	N74-18323 *	US-PATENT-CLASS-75-213	c 37	N74-13179 *	US-PATENT-CLASS-88-1	c 21	N71-22880 *
US-PATENT-CLASS-74-5.7	c 15	N76-14158 *	US-PATENT-CLASS-75-214	c 37	N74-13179 *	US-PATENT-CLASS-88-24	c 23	N71-21882 *
US-PATENT-CLASS-74-5F	c 15	N73-12488 *	US-PATENT-CLASS-75-214	c 37	N75-26371 *	US-PATENT-CLASS-89-1.14	c 37	N87-23983 *
US-PATENT-CLASS-74-501R	c 15	N72-22485 *	US-PATENT-CLASS-75-222	c 28	N70-38197 *	US-PATENT-CLASS-89-1.14	c 37	N90-21390 *
US-PATENT-CLASS-74-515E	c 54	N78-17676 *	US-PATENT-CLASS-75-222	c 37	N75-26371 *	US-PATENT-CLASS-89-1.14	c 37	N91-32498 *
US-PATENT-CLASS-74-519	c 03	N70-41954 *	US-PATENT-CLASS-75-222	c 24	N80-33482 *	US-PATENT-CLASS-89-1.34	c 03	N91-15142 *
US-PATENT-CLASS-74-519	c 05	N81-19087 *	US-PATENT-CLASS-75-225	c 34	N76-27515 *	US-PATENT-CLASS-89-1.5G	c 08	N82-32373 *
US-PATENT-CLASS-74-572	c 07	N78-33101 *	US-PATENT-CLASS-75-226	c 18	N72-25539 *	US-PATENT-CLASS-89-1.54	c 05	N87-14314 *
US-PATENT-CLASS-74-572	c 37	N79-10422 *	US-PATENT-CLASS-75-226	c 26	N74-10521 *	US-PATENT-CLASS-89-1.57	c 37	N85-30334 *
US-PATENT-CLASS-74-572	c 44	N79-14527 *	US-PATENT-CLASS-75-226	c 37	N74-13179 *	US-PATENT-CLASS-89-1.57	c 37	N90-21390 *
US-PATENT-CLASS-74-572	c 24	N81-29163 *	US-PATENT-CLASS-75-226	c 27	N79-14213 *	US-PATENT-CLASS-89-1.57	c 37	N91-32498 *
US-PATENT-CLASS-74-572	c 35	N89-15379 *	US-PATENT-CLASS-75-228	c 24	N90-23493 *	US-PATENT-CLASS-89-1.5	c 31	N71-15675 *
US-PATENT-CLASS-74-573R	c 37	N84-28082 *	US-PATENT-CLASS-75-229	c 27	N78-17206 *	US-PATENT-CLASS-89-1.5	c 15	N71-24600 *
US-PATENT-CLASS-74-586	c 37	N79-14382 *	US-PATENT-CLASS-75-239	c 27	N78-17206 *	US-PATENT-CLASS-89-1.7	c 11	N70-38202 *
US-PATENT-CLASS-74-58	c 35	N84-22928 *	US-PATENT-CLASS-75-241	c 27	N78-17206 *	US-PATENT-CLASS-89-1.7	c 30	N70-40353 *
US-PATENT-CLASS-74-594.6	c 37	N74-18127 *	US-PATENT-CLASS-75-25	c 28	N81-15119 *	US-PATENT-CLASS-89-1.7	c 03	N71-12258 *
US-PATENT-CLASS-74-594.7	c 37	N74-18127 *	US-PATENT-CLASS-75-331	c 31	N91-32240 *	US-PATENT-CLASS-89-1.7	c 03	N71-12258 *
US-PATENT-CLASS-74-61	c 35	N92-33010 *	US-PATENT-CLASS-75-338	c 31	N91-32240 *	US-PATENT-CLASS-89-1.801	c 20	N72-22296 *
US-PATENT-CLASS-74-63	c 15	N71-17692 *	US-PATENT-CLASS-75-340	c 31	N91-32240 *	US-PATENT-CLASS-89-1.806	c 15	N71-24043 *
US-PATENT-CLASS-74-661	c 37	N80-32716 *	US-PATENT-CLASS-75-342	c 31	N91-32240 *	US-PATENT-CLASS-89-1.811	c 15	N72-17455 *
US-PATENT-CLASS-74-665B	c 37	N76-15457 *	US-PATENT-CLASS-75-63	c 15	N71-27184 *	US-PATENT-CLASS-89-1B	c 01	N83-35992 *
US-PATENT-CLASS-74-665C	c 37	N80-32716 *	US-PATENT-CLASS-75-65R	c 24	N77-27187 *	US-PATENT-CLASS-89-1	c 03	N70-34667 *
US-PATENT-CLASS-74-665G	c 37	N91-14616 *	US-PATENT-CLASS-75-66	c 17	N71-26773 *	US-PATENT-CLASS-89-1	c 15	N71-16078 *
US-PATENT-CLASS-74-674	c 37	N79-20377 *	US-PATENT-CLASS-75-66	c 06	N73-13129 *	US-PATENT-CLASS-89-36.02	c 24	N90-21822 *
US-PATENT-CLASS-74-675	c 37	N74-27901 *	US-PATENT-CLASS-75-66	c 17	N73-28573 *	US-PATENT-CLASS-89-36.02	c 18	N92-15114 *
US-PATENT-CLASS-74-705	c 37	N79-20377 *	US-PATENT-CLASS-77.5AQ	c 27	N81-15104 *	US-PATENT-CLASS-89-36.11	c 18	N92-15114 *
US-PATENT-CLASS-74-710	c 37	N74-27901 *	US-PATENT-CLASS-77.5CH	c 27	N81-15104 *	US-PATENT-CLASS-89-8	c 11	N71-18578 *
US-PATENT-CLASS-74-753	c 37	N84-28084 *	US-PATENT-CLASS-78-1	c 15	N70-33330 *	US-PATENT-CLASS-89-8	c 11	N73-32152 *

US-PATENT-CLASS-89-8	c 75	N76-14931 *	US-PATENT-CLASS-96-36.2	c 15	N72-25452 *	US-PATENT-3,115,630	c 31	N70-37981 *
US-PATENT-CLASS-89-8	c 75	N76-17951 *	US-PATENT-CLASS-96-38.3	c 35	N74-26946 *	US-PATENT-3,118,100	c 03	N71-29129 *
US-PATENT-CLASS-89-8	c 09	N79-21084 *	US-PATENT-CLASS-96-49	c 14	N71-17574 *	US-PATENT-3,119,086	c 35	N79-33449 *
US-PATENT-CLASS-89-8	c 14	N92-15081 *	US-PATENT-CLASS-96-60R	c 35	N79-10389 *	US-PATENT-3,119,232	c 28	N70-37980 *
US-PATENT-CLASS-9-11A	c 02	N73-26006 *	US-PATENT-CLASS-96-79	c 35	N74-26946 *	US-PATENT-3,120,101	c 28	N70-34860 *
US-PATENT-CLASS-9-11A	c 54	N74-14845 *	US-PATENT-CLASS-96-87A	c 27	N78-14164 *	US-PATENT-3,120,361	c 31	N70-38010 *
US-PATENT-CLASS-9-11	c 05	N70-34857 *	US-PATENT-CLASS-96-90PC	c 14	N72-22443 *	US-PATENT-3,120,738	c 28	N70-38249 *
US-PATENT-CLASS-9-2A	c 02	N73-26006 *	US-PATENT-CLASS-98-1.5	c 44	N78-32539 *	US-PATENT-3,121,309	c 28	N70-35381 *
US-PATENT-CLASS-9-312	c 05	N71-22748 *	US-PATENT-CLASS-98-1	c 54	N78-17679 *	US-PATENT-3,122,000	c 15	N70-38020 *
US-PATENT-CLASS-9-316	c 05	N70-36493 *	US-PATENT-CLASS-98-39	c 31	N74-27902 *	US-PATENT-3,122,098	c 28	N70-38181 *
US-PATENT-CLASS-9-3	c 02	N73-26006 *	US-PATENT-CLASS-99-80PS	c 05	N72-33096 *	US-PATENT-3,122,885	c 28	N70-38710 *
US-PATENT-CLASS-9-8	c 03	N70-36778 *				US-PATENT-3,123,248	c 11	N70-38182 *
US-PATENT-CLASS-9-9	c 15	N71-24600 *	US-PATENT-DES-228,688	c 05	N74-10907 *	US-PATENT-3,123,418	c 37	N79-33467 *
US-PATENT-CLASS-90-11	c 15	N71-33518 *				US-PATENT-3,123,692	c 33	N79-33393 *
US-PATENT-CLASS-90-12.5	c 37	N74-25968 *	US-PATENT-RE-26,548	c 07	N71-12389 *	US-PATENT-3,127,157	c 15	N70-38225 *
US-PATENT-CLASS-90-12	c 15	N71-22799 *	US-PATENT-RE-28,921	c 52	N76-30793 *	US-PATENT-3,128,389	c 09	N70-38604 *
US-PATENT-CLASS-901-19	c 33	N91-31528 *				US-PATENT-3,128,845	c 15	N70-38601 *
US-PATENT-CLASS-901-1	c 18	N88-23828 *	US-PATENT-2,837,706	c 15	N71-28952 *	US-PATENT-3,130,940	c 33	N70-33344 *
US-PATENT-CLASS-901-1	c 54	N92-29129 *	US-PATENT-2,898,889	c 02	N71-29128 *	US-PATENT-3,131,040	c 37	N79-21345 *
US-PATENT-CLASS-901-23	c 37	N92-33634 *	US-PATENT-2,903,307	c 15	N71-29136 *	US-PATENT-3,132,342	c 07	N70-38200 *
US-PATENT-CLASS-901-25	c 37	N86-20789 *	US-PATENT-2,926,123	c 33	N71-29151 *	US-PATENT-3,132,476	c 28	N70-34294 *
US-PATENT-CLASS-901-28	c 37	N91-17388 *	US-PATENT-2,934,331	c 15	N70-33382 *	US-PATENT-3,132,479	c 15	N71-28951 *
US-PATENT-CLASS-901-28	c 37	N92-33634 *	US-PATENT-2,940,259	c 28	N70-33241 *	US-PATENT-3,132,903	c 15	N70-38620 *
US-PATENT-CLASS-901-30	c 37	N91-31656 *	US-PATENT-2,944,316	c 15	N71-16076 *	US-PATENT-3,134,389	c 37	N79-33468 *
US-PATENT-CLASS-901-30	c 37	N92-28727 *	US-PATENT-2,945,687	c 15	N70-33376 *	US-PATENT-3,135,089	c 28	N70-38504 *
US-PATENT-CLASS-901-31	c 37	N86-19603 *	US-PATENT-2,956,772	c 33	N71-29152 *	US-PATENT-3,135,090	c 28	N70-38505 *
US-PATENT-CLASS-901-31	c 37	N86-20789 *	US-PATENT-2,960,002	c 14	N70-41946 *	US-PATENT-3,136,123	c 28	N70-38199 *
US-PATENT-CLASS-901-33	c 18	N88-23828 *	US-PATENT-2,971,837	c 17	N70-33283 *	US-PATENT-3,138,873	c 17	N70-38198 *
US-PATENT-CLASS-901-33	c 37	N91-21542 *	US-PATENT-2,974,925	c 28	N70-33372 *	US-PATENT-3,139,725	c 28	N70-38645 *
US-PATENT-CLASS-901-37	c 37	N91-21542 *	US-PATENT-2,984,735	c 11	N70-33329 *	US-PATENT-3,140,728	c 15	N70-36908 *
US-PATENT-CLASS-901-38	c 37	N90-20408 *	US-PATENT-2,991,671	c 15	N70-33330 *	US-PATENT-3,141,340	c 11	N70-38196 *
US-PATENT-CLASS-901-38	c 37	N91-14615 *	US-PATENT-2,991,961	c 02	N70-33332 *	US-PATENT-3,141,769	c 28	N70-38197 *
US-PATENT-CLASS-901-39	c 37	N90-20408 *	US-PATENT-2,996,212	c 31	N71-17680 *	US-PATENT-3,141,932	c 03	N70-38713 *
US-PATENT-CLASS-901-39	c 37	N91-14615 *	US-PATENT-2,997,274	c 28	N71-29154 *	US-PATENT-3,143,321	c 15	N70-34850 *
US-PATENT-CLASS-901-39	c 37	N92-29138 *	US-PATENT-3,001,363	c 28	N70-33331 *	US-PATENT-3,143,651	c 14	N70-40240 *
US-PATENT-CLASS-901-40	c 37	N92-33018 *	US-PATENT-3,001,395	c 14	N70-33386 *	US-PATENT-3,144,219	c 31	N70-38676 *
US-PATENT-CLASS-901-42	c 37	N86-21850 *	US-PATENT-3,001,739	c 03	N70-33343 *	US-PATENT-3,144,999	c 02	N70-34856 *
US-PATENT-CLASS-901-46	c 37	N92-28727 *	US-PATENT-3,004,189	c 37	N75-29426 *	US-PATENT-3,145,874	c 11	N71-15960 *
US-PATENT-CLASS-901-47	c 37	N86-21850 *	US-PATENT-3,004,735	c 14	N70-33322 *	US-PATENT-3,147,422	c 09	N70-38712 *
US-PATENT-CLASS-901-47	c 37	N91-21542 *	US-PATENT-3,005,081	c 09	N70-33312 *	US-PATENT-3,149,897	c 09	N70-36494 *
US-PATENT-CLASS-901-47	c 63	N92-33019 *	US-PATENT-3,005,339	c 11	N70-33287 *	US-PATENT-3,150,329	c 09	N70-38995 *
US-PATENT-CLASS-901-50	c 37	N86-19603 *	US-PATENT-3,008,229	c 15	N70-33311 *	US-PATENT-3,150,387	c 03	N70-36778 *
US-PATENT-CLASS-901-6	c 37	N92-22036 *	US-PATENT-3,010,372	c 15	N70-33180 *	US-PATENT-3,152,344	c 05	N70-36493 *
US-PATENT-CLASS-901-9	c 37	N91-21544 *	US-PATENT-3,011,760	c 15	N70-33226 *	US-PATENT-3,155,992	c 05	N70-34857 *
US-PATENT-CLASS-901-9	c 37	N92-33634 *	US-PATENT-3,012,400	c 28	N70-33374 *	US-PATENT-3,156,090	c 28	N70-37245 *
US-PATENT-CLASS-91-186	c 05	N73-32014 *	US-PATENT-3,012,407	c 15	N70-33323 *	US-PATENT-3,157,529	c 18	N70-36400 *
US-PATENT-CLASS-91-325	c 37	N81-32510 *	US-PATENT-3,016,693	c 28	N70-33356 *	US-PATENT-3,158,172	c 15	N70-34817 *
US-PATENT-CLASS-91-341R	c 37	N81-32510 *	US-PATENT-3,016,863	c 12	N70-33305 *	US-PATENT-3,158,336	c 31	N70-36410 *
US-PATENT-CLASS-91-361	c 15	N71-27754 *	US-PATENT-3,022,672	c 14	N70-34816 *	US-PATENT-3,158,764	c 03	N70-36803 *
US-PATENT-CLASS-91-363A	c 15	N73-13466 *	US-PATENT-3,024,659	c 14	N70-34820 *	US-PATENT-3,159,967	c 28	N70-36802 *
US-PATENT-CLASS-91-390	c 15	N71-27147 *	US-PATENT-3,028,122	c 02	N70-33286 *	US-PATENT-3,160,825	c 14	N70-35220 *
US-PATENT-CLASS-91-390	c 15	N71-27754 *	US-PATENT-3,028,126	c 21	N70-33279 *	US-PATENT-3,160,950	c 15	N70-36409 *
US-PATENT-CLASS-91-410	c 37	N81-32510 *	US-PATENT-3,028,128	c 31	N70-33242 *	US-PATENT-3,162,012	c 15	N70-36411 *
US-PATENT-CLASS-91-448	c 15	N71-27754 *	US-PATENT-3,035,333	c 28	N70-41818 *	US-PATENT-3,163,935	c 14	N70-36907 *
US-PATENT-CLASS-91-448	c 15	N73-13466 *	US-PATENT-3,038,077	c 21	N70-33181 *	US-PATENT-3,164,222	c 15	N70-34861 *
US-PATENT-CLASS-91-461	c 15	N71-27147 *	US-PATENT-3,038,175	c 05	N70-33285 *	US-PATENT-3,164,369	c 15	N70-36412 *
US-PATENT-CLASS-92-103F	c 35	N91-21494 *	US-PATENT-3,041,587	c 14	N70-33179 *	US-PATENT-3,165,356	c 05	N70-35152 *
US-PATENT-CLASS-92-103SD	c 35	N91-21494 *	US-PATENT-3,041,924	c 14	N70-33254 *	US-PATENT-3,166,834	c 15	N70-36901 *
US-PATENT-CLASS-92-130R	c 37	N81-33483 *	US-PATENT-3,045,424	c 28	N70-40367 *	US-PATENT-3,167,426	c 17	N70-36616 *
US-PATENT-CLASS-92-176	c 37	N88-23981 *	US-PATENT-3,049,876	c 28	N70-33284 *	US-PATENT-3,168,827	c 14	N70-36807 *
US-PATENT-CLASS-92-208	c 24	N87-27742 *	US-PATENT-3,053,484	c 02	N70-33255 *	US-PATENT-3,169,001	c 02	N70-36825 *
US-PATENT-CLASS-92-212	c 37	N88-23981 *	US-PATENT-3,057,597	c 15	N70-33264 *	US-PATENT-3,169,613	c 15	N70-36947 *
US-PATENT-CLASS-92-212	c 37	N90-22042 *	US-PATENT-3,059,220	c 09	N70-33182 *	US-PATENT-3,169,725	c 31	N70-34296 *
US-PATENT-CLASS-92-213	c 37	N90-22042 *	US-PATENT-3,063,291	c 11	N70-33278 *	US-PATENT-3,170,286	c 15	N70-36535 *
US-PATENT-CLASS-92-214	c 37	N88-23981 *	US-PATENT-3,064,928	c 02	N70-33266 *	US-PATENT-3,170,290	c 28	N70-36910 *
US-PATENT-CLASS-92-222	c 37	N88-23981 *	US-PATENT-3,067,573	c 28	N70-39899 *	US-PATENT-3,170,295	c 27	N71-28929 *
US-PATENT-CLASS-92-222	c 37	N90-22042 *	US-PATENT-3,068,658	c 15	N70-34247 *	US-PATENT-3,170,324	c 14	N70-36824 *
US-PATENT-CLASS-92-224	c 37	N88-23981 *	US-PATENT-3,069,123	c 14	N70-39898 *	US-PATENT-3,170,471	c 32	N70-36536 *
US-PATENT-CLASS-92-248	c 37	N90-22042 *	US-PATENT-3,070,330	c 21	N70-34539 *	US-PATENT-3,170,486	c 15	N70-36492 *
US-PATENT-CLASS-92-37	c 37	N82-24493 *	US-PATENT-3,070,349	c 28	N70-39895 *	US-PATENT-3,170,605	c 15	N70-38996 *
US-PATENT-CLASS-92-49	c 14	N73-13418 *	US-PATENT-3,070,407	c 15	N70-39896 *	US-PATENT-3,170,657	c 02	N70-34858 *
US-PATENT-CLASS-92-94	c 32	N70-41370 *	US-PATENT-3,072,574	c 18	N70-39897 *	US-PATENT-3,170,660	c 02	N70-36804 *
US-PATENT-CLASS-92-98R	c 31	N85-21404 *	US-PATENT-3,076,065	c 09	N70-39915 *	US-PATENT-3,170,773	c 17	N70-33288 *
US-PATENT-CLASS-93-1	c 15	N70-33180 *	US-PATENT-3,077,599	c 07	N70-40202 *	US-PATENT-3,171,080	c 25	N70-33267 *
US-PATENT-CLASS-94.9N	c 27	N81-15104 *	US-PATENT-3,079,113	c 02	N70-38009 *	US-PATENT-3,171,081	c 14	N70-35666 *
US-PATENT-CLASS-95-1.1	c 14	N72-18411 *	US-PATENT-3,080,711	c 28	N70-38711 *	US-PATENT-3,172,097	c 08	N70-35423 *
US-PATENT-CLASS-95-1.1	c 14	N73-26431 *	US-PATENT-3,083,611	c 21	N70-35427 *	US-PATENT-3,173,246	c 28	N70-33265 *
US-PATENT-CLASS-95-11.5R	c 14	N73-19419 *	US-PATENT-3,084,421	c 17	N70-38490 *	US-PATENT-3,173,251	c 28	N70-33375 *
US-PATENT-CLASS-95-11.5	c 14	N73-32319 *	US-PATENT-3,085,165	c 09	N70-34819 *	US-PATENT-3,173,801	c 32	N79-19186 *
US-PATENT-CLASS-95-11R	c 14	N73-19419 *	US-PATENT-3,087,692	c 02	N70-34178 *	US-PATENT-3,174,278	c 25	N70-36946 *
US-PATENT-CLASS-95-11	c 14	N71-18465 *	US-PATENT-3,088,441	c 15	N70-35409 *	US-PATENT-3,174,279	c 28	N70-36806 *
US-PATENT-CLASS-95-11	c 16	N71-33410 *	US-PATENT-3,090,212	c 33	N70-37979 *	US-PATENT-3,174,827	c 26	N70-36805 *
US-PATENT-CLASS-95-11	c 14	N73-32319 *	US-PATENT-3,090,580	c 31	N70-37924 *	US-PATENT-3,175,789	c 31	N70-36654 *
US-PATENT-CLASS-95-12.5	c 31	N72-25842 *	US-PATENT-3,093,000	c 15	N70-37925 *	US-PATENT-3,176,222	c 14	N70-36618 *
US-PATENT-CLASS-95-12.5	c 14	N73-14427 *	US-PATENT-3,093,346	c 31	N70-37938 *	US-PATENT-3,176,499	c 14	N70-35368 *
US-PATENT-CLASS-95-12	c 14	N73-33361 *	US-PATENT-3,098,630	c 02	N70-37939 *	US-PATENT-3,176,933	c 33	N70-36617 *
US-PATENT-CLASS-95-18	c 14	N72-20380 *	US-PATENT-3,100,294	c 09	N70-38998 *	US-PATENT-3,177,933	c 33	N70-36847 *
US-PATENT-CLASS-95-42	c 14	N73-32322 *	US-PATENT-3,100,990	c 14	N70-34813 *	US-PATENT-3,178,883	c 21	N70-36938 *
US-PATENT-CLASS-95-44	c 14	N71-26474 *	US-PATENT-3,102,948	c 15	N70-34814 *	US-PATENT-3,180,264	c 33	N70-36846 *
US-PATENT-CLASS-95-53EA	c 33	N74-20861 *	US-PATENT-3,104,079	c 31	N70-37986 *	US-PATENT-3,180,587	c 21	N70-36943 *
US-PATENT-CLASS-95-53	c 15	N71-21060 *	US-PATENT-3,104,082	c 02	N70-38011 *	US-PATENT-3,181,821	c 31	N70-36845 *
US-PATENT-CLASS-95-58	c 14	N70-40273 *	US-PATENT-3,105,515	c 15	N70-38603 *	US-PATENT-3,182,496	c 11	N70-36913 *
US-PATENT-CLASS-95-59	c 14	N73-14427 *	US-PATENT-3,106,603	c 09	N70-38201 *	US-PATENT-3,183,506	c 07	N70-36911 *
US-PATENT-CLASS-95-89R	c 35	N74-15831 *	US-PATENT-3,108,171	c 33	N70-34812 *	US-PATENT-3,185,023	c 14	N70-34298 *
US-PATENT-CLASS-96-27R	c 35	N79-10389 *	US-PATENT-3,110,318	c 12	N70-38997 *	US-PATENT-3,187,583	c 11	N70-36675 *
US-PATENT-CLASS-96-36.2	c 06	N72-21094 *	US-PATENT-3,112,672	c 11	N70-38202 *	US-PATENT-3,188,472	c 21	N70-34297 *

US-PATENT-3,188,844	c 15	N70-34249 *	US-PATENT-3,238,413	c 25	N71-29184 *	US-PATENT-3,282,739	c 03	N71-11053 *
US-PATENT-3,189,299	c 21	N70-34295 *	US-PATENT-3,238,715	c 28	N71-14043 *	US-PATENT-3,282,740	c 03	N71-11051 *
US-PATENT-3,189,535	c 15	N70-34967 *	US-PATENT-3,238,730	c 03	N71-12260 *	US-PATENT-3,283,088	c 10	N71-15909 *
US-PATENT-3,189,726	c 33	N70-34545 *	US-PATENT-3,238,774	c 14	N71-14996 *	US-PATENT-3,283,175	c 10	N71-15910 *
US-PATENT-3,189,784	c 33	N75-27550 *	US-PATENT-3,238,777	c 14	N71-15598 *	US-PATENT-3,283,241	c 14	N71-16014 *
US-PATENT-3,189,794	c 09	N70-34502 *	US-PATENT-3,239,660	c 23	N71-30292 *	US-PATENT-3,286,274	c 05	N71-12335 *
US-PATENT-3,189,864	c 09	N70-34596 *	US-PATENT-3,242,716	c 14	N71-15992 *	US-PATENT-3,286,531	c 30	N71-17788 *
US-PATENT-3,190,124	c 35	N79-33450 *	US-PATENT-3,243,154	c 23	N71-15673 *	US-PATENT-3,286,629	c 31	N71-17730 *
US-PATENT-3,191,316	c 31	N70-34966 *	US-PATENT-3,243,791	c 07	N71-11298 *	US-PATENT-3,286,630	c 31	N71-10582 *
US-PATENT-3,191,379	c 27	N70-35534 *	US-PATENT-3,244,943	c 15	N73-28516 *	US-PATENT-3,286,882	c 27	N71-29155 *
US-PATENT-3,191,907	c 15	N70-34859 *	US-PATENT-3,249,012	c 03	N71-12258 *	US-PATENT-3,286,953	c 21	N70-41856 *
US-PATENT-3,192,730	c 06	N70-34946 *	US-PATENT-3,249,013	c 03	N71-12259 *	US-PATENT-3,286,957	c 02	N70-41863 *
US-PATENT-3,193,883	c 27	N70-34783 *	US-PATENT-3,251,053	c 08	N71-12501 *	US-PATENT-3,287,031	c 15	N70-41808 *
US-PATENT-3,194,060	c 14	N70-34794 *	US-PATENT-3,252,100	c 10	N71-28960 *	US-PATENT-3,287,174	c 03	N70-41864 *
US-PATENT-3,194,525	c 11	N70-35383 *	US-PATENT-3,254,395	c 28	N71-15658 *	US-PATENT-3,287,496	c 14	N70-41807 *
US-PATENT-3,194,951	c 08	N70-34778 *	US-PATENT-3,254,487	c 28	N71-15659 *	US-PATENT-3,287,582	c 28	N70-41576 *
US-PATENT-3,196,261	c 08	N70-34787 *	US-PATENT-3,257,780	c 15	N71-15968 *	US-PATENT-3,287,640	c 09	N70-41655 *
US-PATENT-3,196,362	c 09	N70-35440 *	US-PATENT-3,258,582	c 02	N71-13421 *	US-PATENT-3,287,660	c 16	N70-41578 *
US-PATENT-3,196,557	c 11	N70-34815 *	US-PATENT-3,258,687	c 14	N71-15962 *	US-PATENT-3,287,725	c 07	N70-41680 *
US-PATENT-3,196,558	c 14	N70-35394 *	US-PATENT-3,258,831	c 15	N71-15986 *	US-PATENT-3,289,205	c 07	N70-41678 *
US-PATENT-3,196,598	c 28	N70-34788 *	US-PATENT-3,258,912	c 27	N71-15634 *	US-PATENT-3,295,360	c 14	N70-41681 *
US-PATENT-3,196,675	c 14	N70-34818 *	US-PATENT-3,258,918	c 27	N71-15635 *	US-PATENT-3,295,366	c 11	N70-41677 *
US-PATENT-3,196,690	c 11	N70-34786 *	US-PATENT-3,260,055	c 23	N71-15467 *	US-PATENT-3,295,377	c 14	N70-41682 *
US-PATENT-3,197,616	c 14	N71-28958 *	US-PATENT-3,260,204	c 31	N71-15692 *	US-PATENT-3,295,386	c 05	N70-41681 *
US-PATENT-3,198,955	c 08	N70-34743 *	US-PATENT-3,260,326	c 11	N71-28779 *	US-PATENT-3,295,512	c 03	N70-41580 *
US-PATENT-3,198,994	c 26	N73-28710 *	US-PATENT-3,261,210	c 14	N71-15969 *	US-PATENT-3,295,545	c 15	N70-41646 *
US-PATENT-3,199,340	c 14	N70-34799 *	US-PATENT-3,262,025	c 15	N73-32361 *	US-PATENT-3,295,556	c 32	N70-41579 *
US-PATENT-3,199,343	c 11	N70-34844 *	US-PATENT-3,262,186	c 15	N71-16052 *	US-PATENT-3,295,594	c 54	N82-29002 *
US-PATENT-3,199,931	c 15	N70-34664 *	US-PATENT-3,262,262	c 28	N71-15661 *	US-PATENT-3,295,684	c 28	N70-41447 *
US-PATENT-3,200,706	c 03	N70-34667 *	US-PATENT-3,262,351	c 15	N71-15922 *	US-PATENT-3,295,699	c 32	N70-41367 *
US-PATENT-3,201,560	c 33	N70-34540 *	US-PATENT-3,262,365	c 31	N71-15675 *	US-PATENT-3,295,782	c 14	N70-41647 *
US-PATENT-3,201,635	c 25	N70-34661 *	US-PATENT-3,262,395	c 15	N71-30028 *	US-PATENT-3,295,790	c 31	N70-41588 *
US-PATENT-3,201,635	c 14	N70-40203 *	US-PATENT-3,262,518	c 05	N71-11199 *	US-PATENT-3,295,798	c 02	N70-41589 *
US-PATENT-3,201,980	c 31	N70-34176 *	US-PATENT-3,262,655	c 31	N71-15663 *	US-PATENT-3,295,808	c 15	N70-41310 *
US-PATENT-3,202,381	c 28	N71-28928 *	US-PATENT-3,262,694	c 44	N79-19447 *	US-PATENT-3,296,060	c 18	N70-41583 *
US-PATENT-3,202,398	c 03	N70-34134 *	US-PATENT-3,263,016	c 33	N71-15625 *	US-PATENT-3,296,526	c 14	N70-41332 *
US-PATENT-3,202,844	c 14	N70-38602 *	US-PATENT-3,263,171	c 09	N71-13530 *	US-PATENT-3,296,531	c 07	N70-41331 *
US-PATENT-3,202,915	c 31	N70-34135 *	US-PATENT-3,263,610	c 15	N71-13789 *	US-PATENT-3,298,175	c 33	N71-29053 *
US-PATENT-3,202,998	c 14	N70-34156 *	US-PATENT-3,264,135	c 15	N71-16075 *	US-PATENT-3,298,182	c 28	N70-41311 *
US-PATENT-3,204,447	c 03	N70-34157 *	US-PATENT-3,270,441	c 11	N71-16028 *	US-PATENT-3,298,221	c 14	N70-41330 *
US-PATENT-3,204,889	c 14	N70-34158 *	US-PATENT-3,270,499	c 28	N71-15660 *	US-PATENT-3,298,285	c 32	N70-41370 *
US-PATENT-3,205,361	c 21	N70-35089 *	US-PATENT-3,270,501	c 31	N71-15647 *	US-PATENT-3,298,362	c 05	N70-41329 *
US-PATENT-3,205,362	c 03	N70-35408 *	US-PATENT-3,270,503	c 33	N71-15623 *	US-PATENT-3,298,582	c 14	N71-28935 *
US-PATENT-3,205,381	c 21	N70-35395 *	US-PATENT-3,270,504	c 31	N71-15637 *	US-PATENT-3,298,582	c 16	N71-15550 *
US-PATENT-3,206,141	c 18	N75-27040 *	US-PATENT-3,270,505	c 21	N71-15582 *	US-PATENT-3,299,431	c 07	N71-28979 *
US-PATENT-3,206,897	c 28	N70-34162 *	US-PATENT-3,270,512	c 15	N71-15906 *	US-PATENT-3,299,913	c 15	N71-15918 *
US-PATENT-3,208,215	c 14	N70-34161 *	US-PATENT-3,270,565	c 14	N71-30265 *	US-PATENT-3,300,162	c 31	N70-41373 *
US-PATENT-3,208,272	c 02	N70-34160 *	US-PATENT-3,270,756	c 15	N71-15967 *	US-PATENT-3,300,731	c 07	N70-41372 *
US-PATENT-3,208,694	c 31	N70-34159 *	US-PATENT-3,270,802	c 33	N71-24876 *	US-PATENT-3,300,847	c 15	N70-41371 *
US-PATENT-3,209,360	c 09	N70-35219 *	US-PATENT-3,270,835	c 28	N70-41582 *	US-PATENT-3,300,949	c 05	N70-41297 *
US-PATENT-3,209,361	c 09	N70-35425 *	US-PATENT-3,270,908	c 31	N71-15664 *	US-PATENT-3,300,981	c 28	N70-41275 *
US-PATENT-3,210,927	c 28	N70-34175 *	US-PATENT-3,270,985	c 21	N71-15583 *	US-PATENT-3,301,046	c 14	N70-41366 *
US-PATENT-3,211,169	c 15	N70-35087 *	US-PATENT-3,270,986	c 05	N71-12336 *	US-PATENT-3,301,315	c 09	N70-41717 *
US-PATENT-3,211,414	c 15	N70-35407 *	US-PATENT-3,270,988	c 01	N71-13410 *	US-PATENT-3,301,507	c 31	N70-41631 *
US-PATENT-3,212,096	c 09	N70-35382 *	US-PATENT-3,270,989	c 02	N71-11041 *	US-PATENT-3,301,511	c 02	N70-41630 *
US-PATENT-3,212,259	c 28	N71-29153 *	US-PATENT-3,270,990	c 28	N71-15563 *	US-PATENT-3,301,578	c 15	N70-41629 *
US-PATENT-3,212,325	c 14	N70-34705 *	US-PATENT-3,271,140	c 17	N71-15644 *	US-PATENT-3,302,023	c 14	N70-41676 *
US-PATENT-3,212,564	c 33	N71-29052 *	US-PATENT-3,271,181	c 15	N71-16077 *	US-PATENT-3,302,040	c 09	N70-41675 *
US-PATENT-3,215,313	c 31	N79-21225 *	US-PATENT-3,271,532	c 09	N71-16089 *	US-PATENT-3,302,569	c 15	N70-41679 *
US-PATENT-3,215,572	c 12	N70-40124 *	US-PATENT-3,271,558	c 15	N71-15871 *	US-PATENT-3,302,633	c 05	N70-41819 *
US-PATENT-3,215,007	c 08	N70-40125 *	US-PATENT-3,271,594	c 10	N71-28739 *	US-PATENT-3,302,662	c 15	N70-41811 *
US-PATENT-3,217,624	c 14	N70-40273 *	US-PATENT-3,271,620	c 09	N71-12540 *	US-PATENT-3,302,960	c 15	N70-41829 *
US-PATENT-3,218,479	c 09	N70-40272 *	US-PATENT-3,271,637	c 26	N71-18064 *	US-PATENT-3,303,304	c 14	N70-41812 *
US-PATENT-3,218,547	c 09	N70-40123 *	US-PATENT-3,271,649	c 10	N71-16030 *	US-PATENT-3,304,028	c 31	N70-41855 *
US-PATENT-3,218,850	c 14	N70-40400 *	US-PATENT-3,273,094	c 23	N71-29049 *	US-PATENT-3,304,718	c 28	N70-41922 *
US-PATENT-3,219,250	c 15	N70-40204 *	US-PATENT-3,273,355	c 33	N71-17897 *	US-PATENT-3,304,724	c 31	N70-41948 *
US-PATENT-3,219,365	c 15	N71-28937 *	US-PATENT-3,273,381	c 32	N71-17645 *	US-PATENT-3,304,729	c 31	N70-41871 *
US-PATENT-3,219,967	c 08	N73-28045 *	US-PATENT-3,273,388	c 09	N71-16086 *	US-PATENT-3,304,768	c 32	N70-42003 *
US-PATENT-3,220,004	c 30	N70-40309 *	US-PATENT-3,273,392	c 23	N71-17802 *	US-PATENT-3,304,773	c 14	N70-41957 *
US-PATENT-3,221,547	c 14	N70-40201 *	US-PATENT-3,273,399	c 12	N71-24692 *	US-PATENT-3,304,799	c 03	N70-41954 *
US-PATENT-3,221,549	c 14	N70-40157 *	US-PATENT-3,274,304	c 26	N71-17818 *	US-PATENT-3,304,865	c 28	N70-41967 *
US-PATENT-3,223,374	c 15	N70-40156 *	US-PATENT-3,275,794	c 37	N75-27376 *	US-PATENT-3,305,415	c 27	N70-41897 *
US-PATENT-3,224,001	c 07	N70-40063 *	US-PATENT-3,276,251	c 11	N71-15926 *	US-PATENT-3,305,636	c 08	N70-41961 *
US-PATENT-3,224,173	c 15	N70-40062 *	US-PATENT-3,276,376	c 31	N71-17629 *	US-PATENT-3,305,801	c 10	N70-41964 *
US-PATENT-3,224,263	c 15	N70-40180 *	US-PATENT-3,276,602	c 32	N71-17609 *	US-PATENT-3,305,810	c 09	N70-41929 *
US-PATENT-3,224,336	c 30	N70-40353 *	US-PATENT-3,276,679	c 15	N71-16079 *	US-PATENT-3,305,861	c 21	N70-41930 *
US-PATENT-3,224,337	c 09	N79-21084 *	US-PATENT-3,276,722	c 02	N71-16087 *	US-PATENT-3,305,870	c 07	N71-15907 *
US-PATENT-3,228,492	c 15	N70-40354 *	US-PATENT-3,276,726	c 31	N71-16081 *	US-PATENT-3,306,134	c 37	N78-17385 *
US-PATENT-3,228,558	c 14	N70-40233 *	US-PATENT-3,276,865	c 17	N71-16025 *	US-PATENT-3,308,848	c 12	N71-16031 *
US-PATENT-3,229,099	c 14	N70-40238 *	US-PATENT-3,276,866	c 17	N71-16026 *	US-PATENT-3,309,012	c 33	N71-17610 *
US-PATENT-3,229,102	c 14	N70-40239 *	US-PATENT-3,276,946	c 23	N71-15978 *	US-PATENT-3,309,961	c 15	N71-16078 *
US-PATENT-3,229,139	c 28	N70-39925 *	US-PATENT-3,277,314	c 10	N71-16042 *	US-PATENT-3,310,054	c 08	N71-15908 *
US-PATENT-3,229,155	c 25	N70-41628 *	US-PATENT-3,277,366	c 10	N71-16057 *	US-PATENT-3,310,138	c 12	N71-16894 *
US-PATENT-3,229,463	c 28	N70-39931 *	US-PATENT-3,277,373	c 07	N71-16088 *	US-PATENT-3,310,256	c 31	N71-17679 *
US-PATENT-3,229,568	c 14	N70-40003 *	US-PATENT-3,277,375	c 07	N71-11284 *	US-PATENT-3,310,258	c 31	N71-17691 *
US-PATENT-3,229,636	c 03	N70-39930 *	US-PATENT-3,277,458	c 10	N71-16058 *	US-PATENT-3,310,261	c 02	N71-11038 *
US-PATENT-3,229,682	c 09	N70-40234 *	US-PATENT-3,277,466	c 31	N71-10747 *	US-PATENT-3,310,262	c 02	N71-12243 *
US-PATENT-3,229,689	c 05	N70-39922 *	US-PATENT-3,279,193	c 33	N71-28852 *	US-PATENT-3,310,443	c 24	N71-10560 *
US-PATENT-3,229,884	c 15	N70-39924 *	US-PATENT-3,281,558	c 33	N75-27249 *	US-PATENT-3,310,699	c 14	N73-32324 *
US-PATENT-3,229,905	c 04	N78-17031 *	US-PATENT-3,281,963	c 11	N71-10746 *	US-PATENT-3,310,765	c 33	N79-21264 *
US-PATENT-3,229,930	c 30	N70-40016 *	US-PATENT-3,281,964	c 11	N71-10776 *	US-PATENT-3,310,978	c 14	N71-10616 *
US-PATENT-3,230,053	c 26	N70-40015 *	US-PATENT-3,281,965	c 11	N71-10748 *	US-PATENT-3,310,980	c 11	N71-10604 *
US-PATENT-3,233,862	c 37	N79-33469 *	US-PATENT-3,282,035	c 11	N71-10777 *	US-PATENT-3,311,315	c 07	N71-10609 *
US-PATENT-3,236,066	c 15	N71-28959 *	US-PATENT-3,282,091	c 14	N71-10781 *	US-PATENT-3,311,502	c 03	N71-10608 *
US-PATENT-3,237,253	c 15	N71-15966 *	US-PATENT-3,282,532	c 31	N71-17729 *	US-PATENT-3,311,510	c 26	N71-10607 *
US-PATENT-3,238,345	c 11	N71-15925 *	US-PATENT-3,282,541	c 31	N71-24750 *	US-PATENT-3,311,571	c 27	N79-21190 *

US-PATENT-3,311,748	c 21	N71-10678 *	US-PATENT-3,345,822	c 27	N71-21819 *	US-PATENT-3,374,830	c 33	N71-22890 *
US-PATENT-3,311,772	c 09	N71-10618 *	US-PATENT-3,345,840	c 15	N71-21536 *	US-PATENT-3,375,451	c 10	N71-22886 *
US-PATENT-3,311,832	c 07	N71-10775 *	US-PATENT-3,345,866	c 11	N71-21481 *	US-PATENT-3,375,479	c 15	N71-23049 *
US-PATENT-3,312,101	c 14	N71-10774 *	US-PATENT-3,346,419	c 03	N71-20895 *	US-PATENT-3,375,712	c 35	N75-29382 *
US-PATENT-3,313,204	c 28	N73-24783 *	US-PATENT-3,346,442	c 18	N71-21651 *	US-PATENT-3,375,885	c 15	N73-33362 *
US-PATENT-3,316,716	c 28	N71-10780 *	US-PATENT-3,346,515	c 06	N71-20905 *	US-PATENT-3,376,730	c 14	N71-22995 *
US-PATENT-3,316,752	c 14	N71-10779 *	US-PATENT-3,346,724	c 15	N71-21179 *	US-PATENT-3,377,208	c 14	N71-23039 *
US-PATENT-3,316,991	c 14	N71-10773 *	US-PATENT-3,346,806	c 14	N71-21090 *	US-PATENT-3,377,845	c 14	N71-22992 *
US-PATENT-3,317,180	c 15	N71-10778 *	US-PATENT-3,346,929	c 15	N71-21076 *	US-PATENT-3,378,315	c 15	N71-22997 *
US-PATENT-3,317,341	c 18	N71-10772 *	US-PATENT-3,347,046	c 33	N71-21507 *	US-PATENT-3,378,657	c 33	N79-33392 *
US-PATENT-3,317,352	c 03	N71-10728 *	US-PATENT-3,347,309	c 33	N71-29046 *	US-PATENT-3,378,851	c 05	N71-23096 *
US-PATENT-3,317,641	c 15	N71-10672 *	US-PATENT-3,347,465	c 18	N71-21068 *	US-PATENT-3,378,892	c 15	N71-22994 *
US-PATENT-3,317,731	c 21	N71-10771 *	US-PATENT-3,347,466	c 28	N71-21493 *	US-PATENT-3,379,052	c 14	N73-32321 *
US-PATENT-3,317,751	c 09	N71-10673 *	US-PATENT-3,347,531	c 15	N71-21177 *	US-PATENT-3,379,064	c 14	N71-23093 *
US-PATENT-3,317,797	c 10	N71-28783 *	US-PATENT-3,347,665	c 17	N71-20743 *	US-PATENT-3,379,330	c 23	N71-22881 *
US-PATENT-3,317,832	c 09	N71-10659 *	US-PATENT-3,348,048	c 14	N71-21088 *	US-PATENT-3,379,885	c 09	N71-22985 *
US-PATENT-3,318,093	c 15	N71-10658 *	US-PATENT-3,348,053	c 10	N71-20782 *	US-PATENT-3,379,974	c 14	N71-22990 *
US-PATENT-3,318,096	c 28	N71-28849 *	US-PATENT-3,348,152	c 10	N71-20841 *	US-PATENT-3,380,042	c 07	N71-23001 *
US-PATENT-3,318,343	c 15	N71-10809 *	US-PATENT-3,348,218	c 10	N71-29135 *	US-PATENT-3,380,049	c 10	N71-23099 *
US-PATENT-3,318,622	c 15	N71-10799 *	US-PATENT-3,349,814	c 33	N71-20834 *	US-PATENT-3,381,339	c 06	N71-22975 *
US-PATENT-3,319,175	c 09	N71-10798 *	US-PATENT-3,350,033	c 14	N71-21082 *	US-PATENT-3,381,517	c 09	N71-22988 *
US-PATENT-3,319,979	c 15	N71-10782 *	US-PATENT-3,350,034	c 31	N71-21064 *	US-PATENT-3,381,527	c 15	N71-22878 *
US-PATENT-3,320,669	c 15	N70-42017 *	US-PATENT-3,350,643	c 07	N71-20791 *	US-PATENT-3,381,569	c 21	N71-22880 *
US-PATENT-3,321,034	c 15	N70-42034 *	US-PATENT-3,350,671	c 09	N71-20842 *	US-PATENT-3,381,778	c 15	N71-22877 *
US-PATENT-3,321,154	c 31	N70-42075 *	US-PATENT-3,350,926	c 14	N71-21091 *	US-PATENT-3,382,082	c 18	N71-22998 *
US-PATENT-3,321,157	c 02	N70-42016 *	US-PATENT-3,352,157	c 14	N71-21072 *	US-PATENT-3,382,105	c 03	N71-29044 *
US-PATENT-3,321,159	c 31	N70-42015 *	US-PATENT-3,352,192	c 15	N71-21489 *	US-PATENT-3,382,107	c 03	N71-22974 *
US-PATENT-3,321,570	c 15	N70-41960 *	US-PATENT-3,352,774	c 37	N80-14395 *	US-PATENT-3,382,714	c 14	N71-22989 *
US-PATENT-3,321,628	c 10	N70-41991 *	US-PATENT-3,353,359	c 28	N71-20942 *	US-PATENT-3,383,461	c 07	N71-23026 *
US-PATENT-3,321,645	c 10	N70-42032 *	US-PATENT-3,354,098	c 06	N71-20717 *	US-PATENT-3,383,524	c 10	N71-23029 *
US-PATENT-3,321,922	c 28	N70-41992 *	US-PATENT-3,354,320	c 23	N71-21821 *	US-PATENT-3,383,903	c 14	N71-23036 *
US-PATENT-3,323,356	c 15	N70-41993 *	US-PATENT-3,354,462	c 14	N71-21006 *	US-PATENT-3,383,922	c 14	N71-22752 *
US-PATENT-3,323,362	c 14	N70-41994 *	US-PATENT-3,355,861	c 18	N71-20742 *	US-PATENT-3,384,016	c 31	N71-23008 *
US-PATENT-3,323,370	c 05	N70-42000 *	US-PATENT-3,355,948	c 14	N71-21007 *	US-PATENT-3,384,075	c 05	N71-22896 *
US-PATENT-3,323,386	c 03	N70-42073 *	US-PATENT-3,356,320	c 05	N71-20718 *	US-PATENT-3,384,111	c 15	N71-22706 *
US-PATENT-3,323,408	c 14	N70-41955 *	US-PATENT-3,356,549	c 15	N71-21404 *	US-PATENT-3,384,324	c 33	N71-22792 *
US-PATENT-3,323,484	c 14	N70-42074 *	US-PATENT-3,356,885	c 25	N71-20747 *	US-PATENT-3,384,820	c 09	N71-23021 *
US-PATENT-3,323,967	c 15	N70-42033 *	US-PATENT-3,356,917	c 33	N79-21265 *	US-PATENT-3,384,895	c 07	N71-22984 *
US-PATENT-3,324,370	c 09	N71-10677 *	US-PATENT-3,357,024	c 12	N71-20815 *	US-PATENT-3,385,036	c 15	N71-22721 *
US-PATENT-3,324,488	c 14	N71-10797 *	US-PATENT-3,357,093	c 15	N71-21078 *	US-PATENT-3,386,337	c 15	N71-22799 *
US-PATENT-3,324,423	c 07	N71-10676 *	US-PATENT-3,357,237	c 33	N71-21586 *	US-PATENT-3,386,685	c 31	N71-22968 *
US-PATENT-3,324,659	c 28	N71-10574 *	US-PATENT-3,357,862	c 03	N71-20904 *	US-PATENT-3,386,686	c 31	N71-22969 *
US-PATENT-3,325,229	c 15	N71-10617 *	US-PATENT-3,358,264	c 09	N71-20851 *	US-PATENT-3,387,149	c 14	N71-22993 *
US-PATENT-3,325,723	c 10	N71-10578 *	US-PATENT-3,359,046	c 15	N71-20739 *	US-PATENT-3,387,218	c 37	N78-17386 *
US-PATENT-3,325,749	c 09	N71-28810 *	US-PATENT-3,359,132	c 09	N71-20705 *	US-PATENT-3,388,258	c 14	N71-22996 *
US-PATENT-3,326,043	c 14	N71-10500 *	US-PATENT-3,359,409	c 07	N71-21476 *	US-PATENT-3,388,387	c 10	N71-23033 *
US-PATENT-3,326,407	c 15	N71-10577 *	US-PATENT-3,359,435	c 15	N71-21311 *	US-PATENT-3,388,590	c 14	N71-23087 *
US-PATENT-3,327,296	c 08	N71-21042 *	US-PATENT-3,359,555	c 09	N71-20864 *	US-PATENT-3,389,017	c 15	N71-23022 *
US-PATENT-3,327,991	c 15	N71-21234 *	US-PATENT-3,359,568	c 54	N78-17680 *	US-PATENT-3,389,260	c 14	N71-23269 *
US-PATENT-3,328,624	c 28	N71-28850 *	US-PATENT-3,359,819	c 15	N71-21744 *	US-PATENT-3,389,346	c 10	N71-28859 *
US-PATENT-3,329,375	c 21	N71-21708 *	US-PATENT-3,359,855	c 23	N71-21882 *	US-PATENT-3,389,877	c 15	N71-28936 *
US-PATENT-3,329,918	c 09	N71-21583 *	US-PATENT-3,360,798	c 09	N71-20658 *	US-PATENT-3,390,017	c 03	N71-23336 *
US-PATENT-3,330,052	c 11	N71-21474 *	US-PATENT-3,360,864	c 14	N71-24693 *	US-PATENT-3,390,020	c 26	N71-23654 *
US-PATENT-3,330,082	c 15	N71-21531 *	US-PATENT-3,360,972	c 15	N71-24833 *	US-PATENT-3,390,023	c 26	N75-29236 *
US-PATENT-3,330,510	c 31	N71-28851 *	US-PATENT-3,360,980	c 14	N71-20741 *	US-PATENT-3,390,282	c 09	N71-23311 *
US-PATENT-3,330,549	c 15	N71-21530 *	US-PATENT-3,360,988	c 09	N71-20816 *	US-PATENT-3,390,378	c 08	N71-23295 *
US-PATENT-3,331,071	c 07	N71-28900 *	US-PATENT-3,361,045	c 15	N71-21060 *	US-PATENT-3,390,528	c 20	N79-21124 *
US-PATENT-3,331,246	c 11	N71-21475 *	US-PATENT-3,361,067	c 26	N71-21824 *	US-PATENT-3,391,080	c 15	N71-24046 *
US-PATENT-3,331,255	c 15	N71-21529 *	US-PATENT-3,361,400	c 15	N71-20813 *	US-PATENT-3,392,403	c 23	N71-23976 *
US-PATENT-3,331,404	c 12	N71-21089 *	US-PATENT-3,361,666	c 15	N71-21403 *	US-PATENT-3,392,586	c 14	N71-24232 *
US-PATENT-3,331,951	c 21	N71-21688 *	US-PATENT-3,361,985	c 10	N71-20852 *	US-PATENT-3,392,864	c 18	N71-23658 *
US-PATENT-3,333,152	c 25	N71-21693 *	US-PATENT-3,364,311	c 07	N71-20814 *	US-PATENT-3,392,865	c 15	N71-23816 *
US-PATENT-3,333,788	c 31	N71-21881 *	US-PATENT-3,364,366	c 09	N71-28926 *	US-PATENT-3,392,936	c 01	N71-23497 *
US-PATENT-3,334,225	c 14	N73-32325 *	US-PATENT-3,364,578	c 14	N71-21079 *	US-PATENT-3,393,059	c 06	N71-23499 *
US-PATENT-3,336,725	c 15	N71-21528 *	US-PATENT-3,364,631	c 32	N71-21045 *	US-PATENT-3,393,330	c 22	N71-23599 *
US-PATENT-3,336,748	c 25	N71-21694 *	US-PATENT-3,364,777	c 15	N71-20740 *	US-PATENT-3,393,332	c 09	N71-23443 *
US-PATENT-3,336,754	c 28	N71-22983 *	US-PATENT-3,364,813	c 09	N71-22999 *	US-PATENT-3,393,347	c 10	N71-23543 *
US-PATENT-3,337,004	c 14	N71-23092 *	US-PATENT-3,365,657	c 10	N71-22961 *	US-PATENT-3,393,380	c 10	N71-23544 *
US-PATENT-3,337,279	c 05	N71-23080 *	US-PATENT-3,365,665	c 14	N71-23037 *	US-PATENT-3,393,384	c 09	N71-23573 *
US-PATENT-3,337,315	c 18	N71-23088 *	US-PATENT-3,365,897	c 33	N71-28892 *	US-PATENT-3,394,286	c 14	N73-30391 *
US-PATENT-3,337,337	c 18	N71-22894 *	US-PATENT-3,365,930	c 14	N71-22964 *	US-PATENT-3,394,359	c 08	N71-28925 *
US-PATENT-3,337,790	c 12	N71-20896 *	US-PATENT-3,365,941	c 14	N71-22965 *	US-PATENT-3,394,975	c 23	N71-30027 *
US-PATENT-3,337,812	c 09	N71-23097 *	US-PATENT-3,366,886	c 10	N71-22962 *	US-PATENT-3,395,053	c 18	N71-23047 *
US-PATENT-3,339,404	c 14	N71-22765 *	US-PATENT-3,366,894	c 10	N71-23084 *	US-PATENT-3,395,565	c 14	N73-30390 *
US-PATENT-3,339,863	c 14	N71-23040 *	US-PATENT-3,367,114	c 28	N71-23081 *	US-PATENT-3,396,057	c 26	N71-23043 *
US-PATENT-3,340,099	c 03	N71-23006 *	US-PATENT-3,367,121	c 15	N71-23025 *	US-PATENT-3,396,184	c 06	N71-28808 *
US-PATENT-3,340,395	c 14	N71-23041 *	US-PATENT-3,367,182	c 33	N71-23085 *	US-PATENT-3,396,303	c 09	N71-22987 *
US-PATENT-3,340,397	c 11	N71-23042 *	US-PATENT-3,367,224	c 15	N71-22798 *	US-PATENT-3,396,584	c 14	N71-30026 *
US-PATENT-3,340,430	c 09	N71-22796 *	US-PATENT-3,367,271	c 15	N71-24042 *	US-PATENT-3,396,719	c 52	N79-21750 *
US-PATENT-3,340,532	c 10	N71-21473 *	US-PATENT-3,367,308	c 11	N71-22875 *	US-PATENT-3,396,920	c 31	N71-29050 *
US-PATENT-3,340,599	c 09	N71-23027 *	US-PATENT-3,367,445	c 15	N71-23048 *	US-PATENT-3,397,094	c 26	N71-29156 *
US-PATENT-3,340,713	c 15	N71-22723 *	US-PATENT-3,368,486	c 15	N71-22874 *	US-PATENT-3,397,117	c 15	N71-23086 *
US-PATENT-3,340,732	c 02	N71-23007 *	US-PATENT-3,369,222	c 08	N71-22707 *	US-PATENT-3,397,318	c 14	N71-22991 *
US-PATENT-3,341,151	c 31	N71-23009 *	US-PATENT-3,369,223	c 08	N71-22710 *	US-PATENT-3,397,512	c 15	N71-23023 *
US-PATENT-3,341,169	c 15	N71-23024 *	US-PATENT-3,369,564	c 15	N71-23051 *	US-PATENT-3,397,537	c 20	N79-21125 *
US-PATENT-3,341,708	c 16	N71-22895 *	US-PATENT-3,370,039	c 06	N71-28807 *	US-PATENT-3,397,932	c 15	N71-22982 *
US-PATENT-3,341,778	c 07	N71-23098 *	US-PATENT-3,372,588	c 33	N71-29051 *	US-PATENT-3,399,299	c 10	N71-23662 *
US-PATENT-3,341,977	c 15	N71-22705 *	US-PATENT-3,373,016	c 26	N75-27127 *	US-PATENT-3,399,574	c 32	N71-24285 *
US-PATENT-3,342,055	c 15	N71-22797 *	US-PATENT-3,373,069	c 15	N71-23052 *	US-PATENT-3,402,265	c 09	N73-28084 *
US-PATENT-3,342,066	c 11	N71-23030 *	US-PATENT-3,373,404	c 08	N71-22749 *	US-PATENT-3,404,289	c 09	N71-23545 *
US-PATENT-3,342,653	c 15	N71-22713 *	US-PATENT-3,373,430	c 09	N71-22888 *	US-PATENT-3,404,348	c 32	N74-22096 *
US-PATENT-3,343,180	c 05	N71-23159 *	US-PATENT-3,373,431	c 07	N71-22750 *	US-PATENT-3,405,406	c 05	N71-23161 *
US-PATENT-3,343,189	c 05	N71-22748 *	US-PATENT-3,373,640	c 15	N71-22722 *	US-PATENT-3,405,887	c 31	N71-24315 *
US-PATENT-3,344,340	c 09	N71-21449 *	US-PATENT-3,373,914	c 15	N71-23050 *	US-PATENT-3,406,336	c 10	N71-24863 *
US-PATENT-3,344,425	c 10	N71-21483 *	US-PATENT-3,374,339	c 08	N71-22897 *	US-PATENT-3,406,742	c 33	N71-24276 *
US-PATENT-3,345,820	c 28	N71-21822 *	US-PATENT-3,374,366	c 09	N71-23015 *	US-PATENT-3,407,304	c 14	N71-23240 *

US-PATENT-3,408,816	c 28	N71-24736 *	US-PATENT-3,426,746	c 05	N71-26293 *	US-PATENT-3,447,233	c 15	N69-39786 *	#
US-PATENT-3,408,870	c 14	N71-23227 *	US-PATENT-3,426,791	c 15	N71-19569 *	US-PATENT-3,447,774	c 15	N71-19485 *	
US-PATENT-3,409,247	c 33	N71-28903 *	US-PATENT-3,427,047	c 15	N69-27490 *	US-PATENT-3,447,850	c 09	N71-18600 *	
US-PATENT-3,409,252	c 15	N71-23255 *	US-PATENT-3,427,089	c 23	N69-24332 *	US-PATENT-3,448,273	c 07	N69-39736 *	#
US-PATENT-3,409,554	c 26	N71-23292 *	US-PATENT-3,427,093	c 09	N71-19479 *	US-PATENT-3,448,290	c 10	N71-23315 *	
US-PATENT-3,409,730	c 33	N71-24145 *	US-PATENT-3,427,097	c 11	N69-24321 *	US-PATENT-3,448,341	c 09	N71-12526 *	
US-PATENT-3,411,356	c 14	N71-23226 *	US-PATENT-3,427,205	c 15	N69-24320 *	US-PATENT-3,448,346	c 15	N71-18701 *	
US-PATENT-3,411,900	c 26	N75-27126 *	US-PATENT-3,427,435	c 17	N69-25147 *	US-PATENT-3,450,842	c 07	N69-39978 *	#
US-PATENT-3,412,559	c 28	N71-23293 *	US-PATENT-3,427,454	c 05	N71-19440 *	US-PATENT-3,450,878	c 14	N71-20430 *	
US-PATENT-3,412,598	c 14	N71-23225 *	US-PATENT-3,427,525	c 03	N69-21330 *	US-PATENT-3,450,946	c 09	N69-39897 *	#
US-PATENT-3,412,729	c 04	N71-23185 *	US-PATENT-3,428,761	c 09	N69-24329 *	US-PATENT-3,452,103	c 06	N73-30101 *	
US-PATENT-3,412,961	c 32	N71-23971 *	US-PATENT-3,428,812	c 14	N69-27485 *	US-PATENT-3,452,423	c 26	N71-16037 *	
US-PATENT-3,413,115	c 17	N71-23365 *	US-PATENT-3,428,847	c 15	N69-24266 *	US-PATENT-3,452,872	c 14	N69-39896 *	#
US-PATENT-3,413,393	c 17	N71-29137 *	US-PATENT-3,428,910	c 09	N69-24330 *	US-PATENT-3,453,172	c 15	N69-39735 *	#
US-PATENT-3,413,510	c 09	N71-23190 *	US-PATENT-3,428,919	c 07	N69-24334 *	US-PATENT-3,453,462	c 03	N69-39983 *	#
US-PATENT-3,413,536	c 03	N71-24605 *	US-PATENT-3,428,923	c 07	N69-27462 *	US-PATENT-3,453,546	c 05	N71-12342 *	
US-PATENT-3,414,012	c 09	N71-23191 *	US-PATENT-3,429,058	c 12	N69-39988 *	US-PATENT-3,453,878	c 09	N79-21083 *	
US-PATENT-3,414,358	c 14	N71-23175 *	US-PATENT-3,429,177	c 06	N69-39733 *	US-PATENT-3,454,410	c 18	N69-39979 *	#
US-PATENT-3,415,032	c 15	N71-23256 *	US-PATENT-3,429,477	c 15	N69-27502 *	US-PATENT-3,454,766	c 35	N75-27329 *	
US-PATENT-3,415,069	c 15	N71-24044 *	US-PATENT-3,429,756	c 76	N79-21910 *	US-PATENT-3,455,121	c 14	N71-20427 *	
US-PATENT-3,415,116	c 14	N71-23790 *	US-PATENT-3,430,063	c 09	N69-27500 *	US-PATENT-3,455,171	c 23	N71-16098 *	
US-PATENT-3,415,126	c 21	N71-23289 *	US-PATENT-3,430,115	c 09	N69-24318 *	US-PATENT-3,456,112	c 14	N69-39937 *	#
US-PATENT-3,415,156	c 15	N71-24043 *	US-PATENT-3,430,131	c 24	N71-20518 *	US-PATENT-3,456,193	c 08	N71-19763 *	
US-PATENT-3,415,643	c 17	N71-23248 *	US-PATENT-3,430,182	c 14	N69-27431 *	US-PATENT-3,456,201	c 09	N69-39885 *	#
US-PATENT-3,416,106	c 09	N71-24808 *	US-PATENT-3,430,227	c 08	N71-19687 *	US-PATENT-3,458,104	c 15	N71-20393 *	
US-PATENT-3,416,274	c 31	N71-24035 *	US-PATENT-3,430,237	c 07	N69-39974 *	US-PATENT-3,458,313	c 14	N71-17574 *	
US-PATENT-3,416,939	c 18	N71-24183 *	US-PATENT-3,430,460	c 15	N69-27505 *	US-PATENT-3,458,651	c 09	N71-19449 *	
US-PATENT-3,416,975	c 17	N71-23828 *	US-PATENT-3,430,902	c 14	N69-27486 *	US-PATENT-3,458,702	c 14	N71-18699 *	
US-PATENT-3,416,988	c 15	N71-24164 *	US-PATENT-3,430,909	c 11	N69-27466 *	US-PATENT-3,458,726	c 10	N69-39888 *	#
US-PATENT-3,417,247	c 14	N71-23797 *	US-PATENT-3,430,937	c 15	N69-27483 *	US-PATENT-3,458,833	c 10	N71-19418 *	
US-PATENT-3,417,266	c 09	N71-23270 *	US-PATENT-3,430,942	c 15	N69-27504 *	US-PATENT-3,458,851	c 09	N69-39734 *	#
US-PATENT-3,417,298	c 10	N71-23271 *	US-PATENT-3,431,149	c 14	N69-27459 *	US-PATENT-3,459,391	c 03	N71-11058 *	
US-PATENT-3,417,316	c 14	N71-23174 *	US-PATENT-3,431,397	c 15	N69-27871 *	US-PATENT-3,460,378	c 14	N71-24233 *	
US-PATENT-3,417,321	c 09	N71-23316 *	US-PATENT-3,431,460	c 09	N71-23189 *	US-PATENT-3,460,379	c 15	N71-24834 *	
US-PATENT-3,417,332	c 07	N71-23405 *	US-PATENT-3,431,559	c 09	N69-24333 *	US-PATENT-3,460,381	c 14	N71-23725 *	
US-PATENT-3,417,399	c 30	N71-23723 *	US-PATENT-3,432,730	c 09	N69-27422 *	US-PATENT-3,460,397	c 15	N71-24045 *	
US-PATENT-3,417,400	c 07	N71-28809 *	US-PATENT-3,433,015	c 28	N71-20330 *	US-PATENT-3,460,759	c 28	N71-23968 *	
US-PATENT-3,419,329	c 14	N71-23268 *	US-PATENT-3,433,079	c 14	N69-27503 *	US-PATENT-3,460,781	c 14	N71-23698 *	
US-PATENT-3,419,363	c 18	N71-23710 *	US-PATENT-3,433,662	c 14	N71-20461 *	US-PATENT-3,460,995	c 03	N71-20407 *	
US-PATENT-3,419,384	c 17	N73-28573 *	US-PATENT-3,433,818	c 06	N71-23230 *	US-PATENT-3,461,290	c 14	N71-26475 *	
US-PATENT-3,419,433	c 03	N71-23187 *	US-PATENT-3,433,909	c 10	N71-23663 *	US-PATENT-3,461,393	c 10	N71-26415 *	
US-PATENT-3,419,531	c 27	N79-21191 *	US-PATENT-3,433,953	c 14	N69-27484 *	US-PATENT-3,461,437	c 10	N71-26434 *	
US-PATENT-3,419,537	c 06	N71-23500 *	US-PATENT-3,433,960	c 16	N69-27491 *	US-PATENT-3,461,700	c 15	N71-26346 *	
US-PATENT-3,419,827	c 09	N71-23548 *	US-PATENT-3,433,961	c 14	N69-27432 *	US-PATENT-3,461,721	c 12	N71-20436 *	
US-PATENT-3,419,964	c 14	N69-21363 *	US-PATENT-3,434,033	c 09	N69-39984 *	US-PATENT-3,461,855	c 05	N71-20268 *	
US-PATENT-3,419,992	c 14	N71-23401 *	US-PATENT-3,434,037	c 10	N71-26414 *	US-PATENT-3,463,001	c 14	N71-20429 *	
US-PATENT-3,420,069	c 15	N69-21465 *	US-PATENT-3,434,050	c 09	N71-20569 *	US-PATENT-3,463,563	c 15	N71-23812 *	
US-PATENT-3,420,223	c 05	N69-21925 *	US-PATENT-3,434,064	c 09	N69-39986 *	US-PATENT-3,463,673	c 03	N71-20491 *	
US-PATENT-3,420,225	c 05	N69-21473 *	US-PATENT-3,434,555	c 18	N71-24184 *	US-PATENT-3,463,679	c 17	N71-24142 *	
US-PATENT-3,420,253	c 12	N69-21466 *	US-PATENT-3,434,885	c 03	N71-20492 *	US-PATENT-3,463,761	c 06	N73-30099 *	
US-PATENT-3,420,338	c 15	N71-26243 *	US-PATENT-3,435,246	c 14	N69-24331 *	US-PATENT-3,463,762	c 06	N73-30100 *	
US-PATENT-3,420,471	c 05	N69-21380 *	US-PATENT-3,437,394	c 14	N69-27461 *	US-PATENT-3,463,939	c 10	N71-19471 *	
US-PATENT-3,420,704	c 15	N69-21460 *	US-PATENT-3,437,527	c 03	N69-24267 *	US-PATENT-3,464,012	c 14	N71-26244 *	
US-PATENT-3,420,945	c 09	N69-21542 *	US-PATENT-3,437,560	c 04	N69-27487 *	US-PATENT-3,464,016	c 10	N71-19472 *	
US-PATENT-3,420,978	c 15	N69-21471 *	US-PATENT-3,437,818	c 03	N71-23354 *	US-PATENT-3,464,018	c 09	N71-23525 *	
US-PATENT-3,421,004	c 14	N71-19568 *	US-PATENT-3,437,832	c 09	N69-27463 *	US-PATENT-3,464,049	c 32	N71-15974 *	
US-PATENT-3,421,053	c 15	N69-21472 *	US-PATENT-3,437,874	c 08	N71-20571 *	US-PATENT-3,464,051	c 15	N71-17685 *	
US-PATENT-3,421,056	c 14	N69-23191 *	US-PATENT-3,437,903	c 03	N69-25146 *	US-PATENT-3,465,482	c 31	N71-16080 *	
US-PATENT-3,421,105	c 09	N69-21543 *	US-PATENT-3,437,919	c 14	N69-27423 *	US-PATENT-3,465,567	c 15	N71-18579 *	
US-PATENT-3,421,134	c 09	N69-21470 *	US-PATENT-3,437,935	c 09	N69-24324 *	US-PATENT-3,465,569	c 14	N71-17659 *	
US-PATENT-3,421,331	c 15	N69-23190 *	US-PATENT-3,437,959	c 07	N69-24323 *	US-PATENT-3,465,584	c 11	N71-23726 *	
US-PATENT-3,421,363	c 11	N69-21540 *	US-PATENT-3,438,044	c 07	N69-27460 *	US-PATENT-3,465,638	c 14	N71-18578 *	
US-PATENT-3,421,506	c 05	N69-23192 *	US-PATENT-3,438,263	c 14	N71-20435 *	US-PATENT-3,465,986	c 31	N71-20396 *	
US-PATENT-3,421,541	c 15	N69-21924 *	US-PATENT-3,439,886	c 31	N69-27499 *	US-PATENT-3,466,052	c 15	N71-19570 *	
US-PATENT-3,421,549	c 03	N69-21469 *	US-PATENT-3,440,419	c 14	N73-28491 *	US-PATENT-3,466,085	c 05	N71-12343 *	
US-PATENT-3,421,591	c 14	N69-21923 *	US-PATENT-3,442,674	c 25	N82-29370 *	US-PATENT-3,466,198	c 03	N71-19545 *	
US-PATENT-3,421,700	c 15	N69-23185 *	US-PATENT-3,443,128	c 03	N69-39890 *	US-PATENT-3,466,243	c 15	N71-23810 *	
US-PATENT-3,421,768	c 15	N69-21362 *	US-PATENT-3,443,208	c 14	N71-20428 *	US-PATENT-3,466,418	c 15	N71-18613 *	
US-PATENT-3,421,864	c 17	N71-23046 *	US-PATENT-3,443,384	c 28	N71-24321 *	US-PATENT-3,466,424	c 15	N71-20395 *	
US-PATENT-3,421,948	c 03	N69-21337 *	US-PATENT-3,443,390	c 11	N71-24964 *	US-PATENT-3,466,459	c 09	N71-26000 *	
US-PATENT-3,422,213	c 03	N69-21539 *	US-PATENT-3,443,412	c 15	N71-23811 *	US-PATENT-3,466,484	c 14	N71-18482 *	
US-PATENT-3,422,278	c 09	N69-21468 *	US-PATENT-3,443,416	c 06	N69-39936 *	US-PATENT-3,466,560	c 09	N71-19466 *	
US-PATENT-3,422,291	c 25	N69-21929 *	US-PATENT-3,443,472	c 15	N71-23254 *	US-PATENT-3,466,570	c 10	N71-25950 *	
US-PATENT-3,422,324	c 14	N69-21541 *	US-PATENT-3,443,583	c 14	N71-18625 *	US-PATENT-3,467,837	c 05	N71-23317 *	
US-PATENT-3,422,352	c 14	N71-19431 *	US-PATENT-3,443,584	c 32	N71-16106 *	US-PATENT-3,468,303	c 09	N71-26002 *	
US-PATENT-3,422,354	c 09	N69-21926 *	US-PATENT-3,443,732	c 15	N71-15607 *	US-PATENT-3,468,548	c 15	N71-26294 *	
US-PATENT-3,422,390	c 09	N69-21927 *	US-PATENT-3,443,773	c 31	N71-23912 *	US-PATENT-3,468,609	c 16	N71-24170 *	
US-PATENT-3,422,403	c 08	N69-21928 *	US-PATENT-3,443,779	c 01	N69-39981 *	US-PATENT-3,468,727	c 14	N71-25892 *	
US-PATENT-3,422,440	c 09	N69-21467 *	US-PATENT-3,444,051	c 05	N71-11207 *	US-PATENT-3,468,765	c 17	N71-25903 *	
US-PATENT-3,423,179	c 15	N69-21922 *	US-PATENT-3,444,127	c 06	N71-11237 *	US-PATENT-3,469,068	c 15	N71-23815 *	
US-PATENT-3,423,290	c 06	N71-17705 *	US-PATENT-3,444,375	c 14	N71-15599 *	US-PATENT-3,469,069	c 15	N71-23798 *	
US-PATENT-3,423,579	c 09	N71-19480 *	US-PATENT-3,444,380	c 07	N69-39980 *	US-PATENT-3,469,087	c 16	N71-25914 *	
US-PATENT-3,423,608	c 09	N69-21313 *	US-PATENT-3,446,075	c 14	N73-30394 *	US-PATENT-3,469,143	c 33	N75-29318 *	
US-PATENT-3,423,627	c 33	N78-17293 *	US-PATENT-3,446,387	c 15	N69-39935 *	US-PATENT-3,469,289	c 15	N71-25975 *	
US-PATENT-3,424,966	c 10	N71-20448 *	US-PATENT-3,446,558	c 16	N71-24074 *	US-PATENT-3,469,375	c 14	N71-18483 *	
US-PATENT-3,425,131	c 15	N71-19489 *	US-PATENT-3,446,642	c 18	N69-39895 *	US-PATENT-3,469,436	c 15	N71-23817 *	
US-PATENT-3,425,268	c 14	N69-39975 *	US-PATENT-3,446,676	c 03	N71-11050 *	US-PATENT-3,469,437	c 14	N71-24234 *	
US-PATENT-3,425,272	c 14	N71-20439 *	US-PATENT-3,446,960	c 14	N69-39982 *	US-PATENT-3,469,734	c 11	N71-17600 *	
US-PATENT-3,425,276	c 14	N69-24257 *	US-PATENT-3,446,992	c 09	N69-39987 *	US-PATENT-3,470,043	c 15	N71-24047 *	
US-PATENT-3,425,486	c 05	N71-24147 *	US-PATENT-3,446,997	c 03	N69-39988 *	US-PATENT-3,470,304	c 14	N71-23267 *	
US-PATENT-3,425,487	c 05	N71-19439 *	US-PATENT-3,446,998	c 09	N69-39929 *	US-PATENT-3,470,313	c 07	N71-26579 *	
US-PATENT-3,425,885	c 15	N69-24322 *	US-PATENT-3,447,003	c 09	N71-20446 *	US-PATENT-3,470,318	c 07	N71-24612 *	
US-PATENT-3,426,219	c 09	N69-24317 *	US-PATENT-3,447,015	c 06	N69-39889 *	US-PATENT-3,470,342	c 09	N71-19610 *	
US-PATENT-3,426,230	c 15	N69-24319 *	US-PATENT-3,447,071	c 25	N69-39884 *	US-PATENT-3,470,443	c 03	N71-23239 *	
US-PATENT-3,426,263	c 03	N71-19438 *	US-PAT						

US-PATENT-3,470,475	c 10	N71-19467 *	US-PATENT-3,493,665	c 14	N71-15621 *	US-PATENT-3,517,318	c 08	N71-19432 *
US-PATENT-3,470,489	c 09	N71-23598 *	US-PATENT-3,493,677	c 07	N71-11300 *	US-PATENT-3,517,328	c 16	N71-18614 *
US-PATENT-3,470,495	c 10	N71-23669 *	US-PATENT-3,493,711	c 15	N71-14932 *	US-PATENT-3,518,232	c 06	N71-11235 *
US-PATENT-3,470,496	c 09	N71-19470 *	US-PATENT-3,493,746	c 15	N71-15606 *	US-PATENT-3,519,483	c 44	N82-24644 *
US-PATENT-3,471,856	c 30	N71-16090 *	US-PATENT-3,493,797	c 15	N71-17652 *	US-PATENT-3,519,484	c 44	N82-24643 *
US-PATENT-3,471,858	c 07	N71-12391 *	US-PATENT-3,493,805	c 09	N71-12521 *	US-PATENT-3,520,190	c 10	N71-13537 *
US-PATENT-3,472,019	c 10	N71-26326 *	US-PATENT-3,493,901	c 09	N71-12517 *	US-PATENT-3,520,238	c 14	N71-18465 *
US-PATENT-3,472,059	c 14	N71-23755 *	US-PATENT-3,493,929	c 08	N71-12505 *	US-PATENT-3,520,317	c 12	N71-17578 *
US-PATENT-3,472,060	c 14	N71-26136 *	US-PATENT-3,493,942	c 08	N71-12504 *	US-PATENT-3,520,496	c 31	N71-16345 *
US-PATENT-3,472,069	c 15	N71-20441 *	US-PATENT-3,495,260	c 21	N71-13958 *	US-PATENT-3,520,503	c 31	N71-16085 *
US-PATENT-3,472,080	c 10	N71-26339 *	US-PATENT-3,495,262	c 07	N71-12396 *	US-PATENT-3,520,617	c 23	N71-16101 *
US-PATENT-3,472,086	c 15	N71-23809 *	US-PATENT-3,498,840	c 44	N82-24642 *	US-PATENT-3,520,660	c 23	N71-16355 *
US-PATENT-3,472,140	c 14	N71-26474 *	US-PATENT-3,498,841	c 44	N82-24641 *	US-PATENT-3,521,054	c 06	N71-13461 *
US-PATENT-3,472,202	c 17	N71-24911 *	US-PATENT-3,500,020	c 01	N71-13411 *	US-PATENT-3,521,143	c 08	N71-18752 *
US-PATENT-3,472,372	c 15	N71-20440 *	US-PATENT-3,500,525	c 15	N71-17688 *	US-PATENT-3,521,290	c 31	N71-16102 *
US-PATENT-3,472,470	c 02	N71-20570 *	US-PATENT-3,500,677	c 14	N71-17584 *	US-PATENT-3,523,228	c 10	N71-24861 *
US-PATENT-3,472,577	c 23	N71-24857 *	US-PATENT-3,500,686	c 12	N71-17569 *	US-PATENT-3,526,030	c 15	N71-17686 *
US-PATENT-3,472,625	c 06	N71-23527 *	US-PATENT-3,500,688	c 14	N71-17587 *	US-PATENT-3,526,134	c 33	N71-16356 *
US-PATENT-3,472,629	c 14	N71-20442 *	US-PATENT-3,500,747	c 09	N71-18599 *	US-PATENT-3,526,139	c 31	N71-16221 *
US-PATENT-3,472,698	c 03	N71-23449 *	US-PATENT-3,500,827	c 05	N71-11203 *	US-PATENT-3,526,140	c 27	N71-16223 *
US-PATENT-3,472,709	c 18	N71-26153 *	US-PATENT-3,501,112	c 15	N71-17693 *	US-PATENT-3,526,359	c 33	N71-16357 *
US-PATENT-3,472,742	c 17	N71-24830 *	US-PATENT-3,501,632	c 27	N71-16348 *	US-PATENT-3,526,365	c 28	N71-16224 *
US-PATENT-3,472,998	c 16	N71-20400 *	US-PATENT-3,501,641	c 20	N71-16340 *	US-PATENT-3,526,372	c 31	N71-16346 *
US-PATENT-3,473,050	c 09	N71-20447 *	US-PATENT-3,501,648	c 10	N71-24799 *	US-PATENT-3,526,382	c 15	N71-17649 *
US-PATENT-3,473,116	c 25	N71-20563 *	US-PATENT-3,501,649	c 10	N71-18723 *	US-PATENT-3,526,460	c 23	N71-16365 *
US-PATENT-3,473,165	c 05	N71-26333 *	US-PATENT-3,501,664	c 14	N71-17585 *	US-PATENT-3,526,473	c 18	N71-15545 *
US-PATENT-3,473,216	c 15	N71-20443 *	US-PATENT-3,501,683	c 15	N71-17694 *	US-PATENT-3,526,580	c 18	N71-16210 *
US-PATENT-3,473,379	c 12	N71-26387 *	US-PATENT-3,501,684	c 09	N71-26092 *	US-PATENT-3,526,611	c 06	N71-11236 *
US-PATENT-3,473,758	c 03	N71-20273 *	US-PATENT-3,501,701	c 08	N71-18692 *	US-PATENT-3,526,845	c 09	N71-13531 *
US-PATENT-3,474,192	c 07	N71-26102 *	US-PATENT-3,501,704	c 07	N71-11282 *	US-PATENT-3,526,897	c 09	N71-13521 *
US-PATENT-3,474,220	c 15	N71-19486 *	US-PATENT-3,501,712	c 09	N71-19516 *	US-PATENT-3,527,724	c 27	N78-33228 *
US-PATENT-3,474,328	c 14	N71-26266 *	US-PATENT-3,501,743	c 09	N71-18843 *	US-PATENT-3,529,480	c 15	N71-17692 *
US-PATENT-3,474,357	c 09	N71-20445 *	US-PATENT-3,501,750	c 08	N71-19288 *	US-PATENT-3,529,928	c 17	N71-16393 *
US-PATENT-3,474,413	c 10	N71-26103 *	US-PATENT-3,501,752	c 08	N71-18595 *	US-PATENT-3,530,336	c 09	N71-13518 *
US-PATENT-3,474,441	c 08	N71-19544 *	US-PATENT-3,501,764	c 10	N71-18722 *	US-PATENT-3,531,964	c 15	N71-18616 *
US-PATENT-3,475,384	c 06	N73-30103 *	US-PATENT-3,502,051	c 15	N71-17647 *	US-PATENT-3,531,978	c 14	N71-18481 *
US-PATENT-3,475,442	c 26	N75-27125 *	US-PATENT-3,502,074	c 05	N71-11190 *	US-PATENT-3,531,982	c 15	N71-18132 *
US-PATENT-3,475,675	c 33	N78-17295 *	US-PATENT-3,502,141	c 33	N71-16277 *	US-PATENT-3,531,989	c 33	N71-15641 *
US-PATENT-3,478,514	c 37	N77-22479 *	US-PATENT-3,503,251	c 32	N71-16428 *	US-PATENT-3,532,118	c 12	N71-18615 *
US-PATENT-3,480,789	c 10	N71-26626 *	US-PATENT-3,504,258	c 10	N71-18724 *	US-PATENT-3,532,128	c 15	N71-18580 *
US-PATENT-3,481,638	c 15	N71-26312 *	US-PATENT-3,504,983	c 23	N71-16341 *	US-PATENT-3,532,427	c 21	N71-19212 *
US-PATENT-3,481,802	c 31	N79-21226 *	US-PATENT-3,506,496	c 44	N82-24645 *	US-PATENT-3,532,428	c 30	N71-15990 *
US-PATENT-3,481,887	c 18	N71-26155 *	US-PATENT-3,507,034	c 15	N71-17650 *	US-PATENT-3,532,538	c 18	N71-16046 *
US-PATENT-3,482,179	c 10	N71-26331 *	US-PATENT-3,507,114	c 27	N71-16392 *	US-PATENT-3,532,551	c 03	N71-11049 *
US-PATENT-3,483,535	c 10	N71-26418 *	US-PATENT-3,507,146	c 05	N71-11202 *	US-PATENT-3,532,568	c 17	N71-16044 *
US-PATENT-3,484,712	c 10	N71-26374 *	US-PATENT-3,507,150	c 20	N71-16281 *	US-PATENT-3,532,673	c 06	N71-11238 *
US-PATENT-3,485,290	c 20	N79-21123 *	US-PATENT-3,507,425	c 15	N71-17628 *	US-PATENT-3,532,807	c 07	N71-19433 *
US-PATENT-3,486,123	c 16	N71-24831 *	US-PATENT-3,507,436	c 08	N71-19420 *	US-PATENT-3,532,819	c 10	N71-19468 *
US-PATENT-3,487,216	c 14	N71-24809 *	US-PATENT-3,507,704	c 03	N71-11052 *	US-PATENT-3,532,866	c 08	N71-18602 *
US-PATENT-3,487,281	c 15	N71-24695 *	US-PATENT-3,507,706	c 03	N71-18698 *	US-PATENT-3,532,880	c 24	N71-16095 *
US-PATENT-3,487,288	c 10	N71-25139 *	US-PATENT-3,508,036	c 08	N71-18693 *	US-PATENT-3,532,894	c 23	N71-16100 *
US-PATENT-3,487,680	c 15	N71-17696 *	US-PATENT-3,508,039	c 08	N71-19437 *	US-PATENT-3,532,948	c 10	N71-18772 *
US-PATENT-3,487,765	c 54	N78-17679 *	US-PATENT-3,508,053	c 09	N71-18830 *	US-PATENT-3,532,960	c 03	N71-12255 *
US-PATENT-3,488,103	c 14	N71-15604 *	US-PATENT-3,508,070	c 03	N71-11057 *	US-PATENT-3,532,973	c 15	N71-17822 *
US-PATENT-3,488,123	c 14	N71-17627 *	US-PATENT-3,508,152	c 07	N71-11266 *	US-PATENT-3,532,975	c 10	N71-19421 *
US-PATENT-3,488,414	c 15	N71-17803 *	US-PATENT-3,508,156	c 07	N71-11267 *	US-PATENT-3,532,979	c 10	N71-12554 *
US-PATENT-3,488,461	c 09	N71-12518 *	US-PATENT-3,508,347	c 05	N71-24606 *	US-PATENT-3,532,985	c 07	N71-19773 *
US-PATENT-3,488,504	c 21	N71-15642 *	US-PATENT-3,508,402	c 33	N71-16104 *	US-PATENT-3,533,001	c 07	N71-24583 *
US-PATENT-3,488,771	c 54	N78-17678 *	US-PATENT-3,508,541	c 05	N71-11193 *	US-PATENT-3,533,006	c 10	N72-28241 *
US-PATENT-3,490,074	c 54	N78-17677 *	US-PATENT-3,508,578	c 32	N71-16103 *	US-PATENT-3,533,074	c 08	N71-12502 *
US-PATENT-3,490,130	c 05	N71-12345 *	US-PATENT-3,508,723	c 31	N71-16222 *	US-PATENT-3,533,093	c 10	N71-19417 *
US-PATENT-3,490,205	c 14	N71-17588 *	US-PATENT-3,508,724	c 02	N71-11037 *	US-PATENT-3,533,098	c 08	N71-18594 *
US-PATENT-3,490,235	c 28	N71-14044 *	US-PATENT-3,508,739	c 15	N71-17648 *	US-PATENT-3,534,365	c 07	N71-19854 *
US-PATENT-3,490,238	c 15	N70-22192 *	US-PATENT-3,508,779	c 15	N71-24897 *	US-PATENT-3,534,367	c 02	N71-19287 *
US-PATENT-3,490,405	c 15	N71-15597 *	US-PATENT-3,508,940	c 18	N71-16124 *	US-PATENT-3,534,375	c 07	N71-11285 *
US-PATENT-3,490,440	c 05	N71-12346 *	US-PATENT-3,508,955	c 18	N71-16105 *	US-PATENT-3,534,376	c 07	N71-26101 *
US-PATENT-3,490,718	c 33	N71-14035 *	US-PATENT-3,508,999	c 15	N71-17687 *	US-PATENT-3,534,406	c 05	N71-11195 *
US-PATENT-3,490,719	c 21	N71-14159 *	US-PATENT-3,509,034	c 14	N71-17575 *	US-PATENT-3,534,407	c 05	N71-11194 *
US-PATENT-3,490,721	c 02	N71-11039 *	US-PATENT-3,509,386	c 03	N71-11055 *	US-PATENT-3,534,479	c 14	N71-17657 *
US-PATENT-3,490,939	c 33	N71-14032 *	US-PATENT-3,509,419	c 24	N71-16213 *	US-PATENT-3,534,480	c 14	N71-17658 *
US-PATENT-3,490,965	c 09	N71-12513 *	US-PATENT-3,509,469	c 23	N71-16099 *	US-PATENT-3,534,485	c 11	N71-18773 *
US-PATENT-3,491,202	c 07	N71-12392 *	US-PATENT-3,509,475	c 09	N71-24596 *	US-PATENT-3,534,555	c 12	N71-17631 *
US-PATENT-3,491,255	c 09	N71-12514 *	US-PATENT-3,509,491	c 09	N71-18721 *	US-PATENT-3,534,584	c 10	N71-13545 *
US-PATENT-3,491,335	c 14	N71-15620 *	US-PATENT-3,509,551	c 08	N71-18694 *	US-PATENT-3,534,585	c 14	N71-17701 *
US-PATENT-3,491,857	c 14	N71-17626 *	US-PATENT-3,509,558	c 08	N71-19435 *	US-PATENT-3,534,592	c 14	N71-17656 *
US-PATENT-3,492,176	c 27	N71-14090 *	US-PATENT-3,509,570	c 09	N71-18720 *	US-PATENT-3,534,596	c 14	N71-17586 *
US-PATENT-3,492,672	c 05	N71-12344 *	US-PATENT-3,509,578	c 07	N71-19493 *	US-PATENT-3,534,597	c 31	N71-15643 *
US-PATENT-3,492,739	c 15	N71-15571 *	US-PATENT-3,511,680	c 31	N79-21227 *	US-PATENT-3,534,650	c 15	N71-17653 *
US-PATENT-3,492,858	c 35	N78-17358 *	US-PATENT-3,512,009	c 08	N71-18751 *	US-PATENT-3,534,686	c 31	N71-15687 *
US-PATENT-3,492,862	c 14	N71-15600 *	US-PATENT-3,514,785	c 54	N78-18761 *	US-PATENT-3,534,727	c 05	N71-11189 *
US-PATENT-3,492,947	c 28	N71-14058 *	US-PATENT-3,516,091	c 05	N71-24623 *	US-PATENT-3,534,765	c 12	N71-17661 *
US-PATENT-3,493,003	c 15	N71-15609 *	US-PATENT-3,516,179	c 11	N71-19494 *	US-PATENT-3,534,826	c 31	N71-15689 *
US-PATENT-3,493,004	c 12	N71-17579 *	US-PATENT-3,516,185	c 12	N71-18603 *	US-PATENT-3,534,836	c 15	N71-17805 *
US-PATENT-3,493,012	c 15	N71-15608 *	US-PATENT-3,516,284	c 12	N71-17573 *	US-PATENT-3,534,909	c 15	N71-17654 *
US-PATENT-3,493,027	c 31	N71-18611 *	US-PATENT-3,516,404	c 05	N71-17599 *	US-PATENT-3,534,924	c 31	N71-15674 *
US-PATENT-3,493,153	c 05	N71-12351 *	US-PATENT-3,516,711	c 05	N71-12341 *	US-PATENT-3,534,925	c 31	N71-15676 *
US-PATENT-3,493,155	c 26	N71-14354 *	US-PATENT-3,516,879	c 23	N71-16212 *	US-PATENT-3,534,926	c 15	N71-19214 *
US-PATENT-3,493,194	c 21	N71-14132 *	US-PATENT-3,516,964	c 06	N71-11240 *	US-PATENT-3,534,930	c 02	N71-13422 *
US-PATENT-3,493,197	c 02	N71-11043 *	US-PATENT-3,516,970	c 06	N71-11239 *	US-PATENT-3,535,012	c 16	N71-15567 *
US-PATENT-3,493,291	c 14	N71-15622 *	US-PATENT-3,516,971	c 06	N71-24740 *	US-PATENT-3,535,013	c 16	N71-15551 *
US-PATENT-3,493,294	c 14	N71-15605 *	US-PATENT-3,517,109	c 07	N71-19436 *	US-PATENT-3,535,014	c 16	N71-15555 *
US-PATENT-3,493,401	c 18	N71-14014 *	US-PATENT-3,517,162	c 33	N71-16278 *	US-PATENT-3,535,024	c 14	N71-17662 *
US-PATENT-3,493,415	c 15	N71-15610 *	US-PATENT-3,517,171	c 08	N71-24633 *	US-PATENT-3,535,041	c 14	N71-17655 *
US-PATENT-3,493,437	c 03	N71-11056 *	US-PATENT-3,517,221	c 10	N71-19547 *	US-PATENT-3,535,110	c 17	N71-15468 *
US-PATENT-3,493,522	c 06	N71-11243 *	US-PATENT-3,517,268	c 10	N71-19469 *	US-PATENT-3,535,130	c 18	N71-15469 *
US-PATENT-3,493,524	c 06	N71-11242 *	US-PATENT-3,517,302	c 25	N71-16073 *	US-PATENT-3,535,165	c 33	N71-15568 *

US-PATENT-3,535,179	c 15	N71-17651 *	US-PATENT-3,551,266	c 33	N71-24859 *	US-PATENT-3,571,662	c 10	N71-27366 *
US-PATENT-3,535,352	c 18	N71-15688 *	US-PATENT-3,551,816	c 07	N71-24613 *	US-PATENT-3,571,693	c 09	N71-27364 *
US-PATENT-3,535,446	c 09	N71-12539 *	US-PATENT-3,551,831	c 33	N75-27251 *	US-PATENT-3,571,699	c 09	N71-27053 *
US-PATENT-3,535,451	c 07	N71-11281 *	US-PATENT-3,552,124	c 28	N71-26642 *	US-PATENT-3,571,700	c 14	N71-27325 *
US-PATENT-3,535,497	c 08	N71-24890 *	US-PATENT-3,552,125	c 28	N71-26173 *	US-PATENT-3,571,707	c 10	N71-27338 *
US-PATENT-3,535,543	c 09	N71-13486 *	US-PATENT-3,553,002	c 18	N71-26100 *	US-PATENT-3,571,800	c 10	N71-27272 *
US-PATENT-3,535,547	c 09	N71-12520 *	US-PATENT-3,553,586	c 07	N71-26292 *	US-PATENT-3,571,801	c 08	N71-27255 *
US-PATENT-3,535,554	c 09	N71-12516 *	US-PATENT-3,553,704	c 10	N71-26142 *	US-PATENT-3,572,089	c 14	N71-27185 *
US-PATENT-3,535,554	c 09	N71-12516 *	US-PATENT-3,553,904	c 15	N71-26134 *	US-PATENT-3,572,104	c 28	N71-27094 *
US-PATENT-3,535,560	c 08	N71-12494 *	US-PATENT-3,554,466	c 31	N71-26537 *	US-PATENT-3,572,112	c 15	N71-27006 *
US-PATENT-3,535,562	c 33	N71-27862 *	US-PATENT-3,554,647	c 23	N71-26206 *	US-PATENT-3,572,610	c 28	N71-27095 *
US-PATENT-3,535,570	c 15	N71-24696 *	US-PATENT-3,554,806	c 03	N71-26084 *	US-PATENT-3,572,935	c 14	N71-27215 *
US-PATENT-3,535,586	c 25	N71-15562 *	US-PATENT-3,555,192	c 07	N71-26181 *	US-PATENT-3,573,078	c 27	N82-29451 *
US-PATENT-3,535,602	c 09	N71-13522 *	US-PATENT-3,555,361	c 10	N71-26531 *	US-PATENT-3,573,470	c 74	N78-33913 *
US-PATENT-3,535,642	c 08	N71-12503 *	US-PATENT-3,555,455	c 23	N71-26722 *	US-PATENT-3,573,504	c 33	N78-17294 *
US-PATENT-3,535,644	c 09	N71-12519 *	US-PATENT-3,555,483	c 35	N77-21393 *	US-PATENT-3,573,583	c 09	N71-28886 *
US-PATENT-3,535,657	c 07	N71-12390 *	US-PATENT-3,555,867	c 15	N71-26148 *	US-PATENT-3,573,797	c 08	N71-27057 *
US-PATENT-3,535,658	c 08	N71-12500 *	US-PATENT-3,555,898	c 12	N71-26546 *	US-PATENT-3,573,977	c 15	N71-28582 *
US-PATENT-3,535,683	c 31	N71-15566 *	US-PATENT-3,556,048	c 09	N71-26701 *	US-PATENT-3,573,986	c 03	N71-28579 *
US-PATENT-3,535,696	c 08	N71-12506 *	US-PATENT-3,556,634	c 07	N71-26291 *	US-PATENT-3,573,996	c 18	N71-29040 *
US-PATENT-3,535,702	c 09	N71-12515 *	US-PATENT-3,557,027	c 06	N71-25929 *	US-PATENT-3,574,057	c 22	N71-28759 *
US-PATENT-3,536,103	c 15	N71-19213 *	US-PATENT-3,557,534	c 15	N71-26185 *	US-PATENT-3,574,084	c 14	N71-28933 *
US-PATENT-3,537,096	c 08	N71-12507 *	US-PATENT-3,559,031	c 10	N71-26085 *	US-PATENT-3,574,277	c 15	N71-28467 *
US-PATENT-3,537,103	c 08	N71-24650 *	US-PATENT-3,559,096	c 10	N71-25882 *	US-PATENT-3,574,286	c 11	N71-27036 *
US-PATENT-3,537,107	c 05	N71-24730 *	US-PATENT-3,559,460	c 14	N71-26672 *	US-PATENT-3,574,438	c 07	N71-29065 *
US-PATENT-3,537,305	c 26	N71-25490 *	US-PATENT-3,559,937	c 14	N71-26627 *	US-PATENT-3,574,448	c 23	N71-29123 *
US-PATENT-3,537,515	c 09	N71-24807 *	US-PATENT-3,560,081	c 19	N71-26674 *	US-PATENT-3,574,462	c 14	N71-29041 *
US-PATENT-3,537,668	c 05	N71-24728 *	US-PATENT-3,560,161	c 06	N71-26754 *	US-PATENT-3,574,467	c 23	N71-29125 *
US-PATENT-3,537,672	c 15	N71-24694 *	US-PATENT-3,561,828	c 15	N71-26189 *	US-PATENT-3,574,470	c 14	N71-28993 *
US-PATENT-3,538,053	c 27	N78-17214 *	US-PATENT-3,562,575	c 09	N71-26182 *	US-PATENT-3,574,770	c 06	N71-27254 *
US-PATENT-3,539,905	c 09	N71-24800 *	US-PATENT-3,562,631	c 14	N71-26137 *	US-PATENT-3,575,336	c 15	N71-27214 *
US-PATENT-3,540,045	c 09	N71-24595 *	US-PATENT-3,562,857	c 15	N71-26721 *	US-PATENT-3,575,585	c 14	N71-27058 *
US-PATENT-3,540,048	c 31	N71-24813 *	US-PATENT-3,562,881	c 09	N71-26678 *	US-PATENT-3,575,597	c 14	N71-27090 *
US-PATENT-3,540,050	c 09	N71-24804 *	US-PATENT-3,562,919	c 15	N71-26145 *	US-PATENT-3,575,602	c 16	N71-27183 *
US-PATENT-3,540,054	c 07	N71-24625 *	US-PATENT-3,563,135	c 15	N71-27147 *	US-PATENT-3,575,638	c 09	N71-26133 *
US-PATENT-3,540,056	c 07	N71-24614 *	US-PATENT-3,563,198	c 18	N71-26285 *	US-PATENT-3,575,641	c 10	N71-26334 *
US-PATENT-3,540,250	c 15	N71-24865 *	US-PATENT-3,563,232	c 05	N71-27234 *	US-PATENT-3,576,107	c 28	N71-26781 *
US-PATENT-3,540,449	c 15	N71-24835 *	US-PATENT-3,563,307	c 15	N71-26611 *	US-PATENT-3,576,127	c 14	N71-26161 *
US-PATENT-3,540,615	c 33	N71-25351 *	US-PATENT-3,563,668	c 14	N71-26788 *	US-PATENT-3,576,135	c 15	N71-26635 *
US-PATENT-3,540,676	c 15	N71-24600 *	US-PATENT-3,563,727	c 15	N71-27184 *	US-PATENT-3,576,301	c 02	N71-26110 *
US-PATENT-3,540,790	c 16	N71-26154 *	US-PATENT-3,563,918	c 06	N71-27363 *	US-PATENT-3,576,656	c 18	N71-26772 *
US-PATENT-3,540,802	c 23	N71-24868 *	US-PATENT-3,564,234	c 09	N71-26787 *	US-PATENT-3,576,669	c 15	N71-29032 *
US-PATENT-3,540,942	c 15	N71-24875 *	US-PATENT-3,564,401	c 14	N71-26135 *	US-PATENT-3,576,723	c 09	N71-28691 *
US-PATENT-3,540,989	c 24	N71-25555 *	US-PATENT-3,564,420	c 14	N71-26774 *	US-PATENT-3,576,786	c 06	N71-28620 *
US-PATENT-3,541,250	c 07	N71-24742 *	US-PATENT-3,564,564	c 15	N71-26162 *	US-PATENT-3,577,014	c 10	N71-28860 *
US-PATENT-3,541,312	c 08	N71-24891 *	US-PATENT-3,564,866	c 23	N71-26654 *	US-PATENT-3,577,092	c 07	N71-28430 *
US-PATENT-3,541,314	c 07	N71-24741 *	US-PATENT-3,564,906	c 32	N71-26681 *	US-PATENT-3,577,356	c 06	N73-30102 *
US-PATENT-3,541,346	c 09	N71-24803 *	US-PATENT-3,565,530	c 15	N71-26673 *	US-PATENT-3,578,755	c 14	N71-29134 *
US-PATENT-3,541,361	c 09	N71-24904 *	US-PATENT-3,565,584	c 15	N71-27372 *	US-PATENT-3,578,756	c 11	N71-28629 *
US-PATENT-3,541,422	c 03	N71-24719 *	US-PATENT-3,565,607	c 17	N71-26773 *	US-PATENT-3,578,758	c 14	N71-28992 *
US-PATENT-3,541,428	c 09	N71-24893 *	US-PATENT-3,565,719	c 03	N71-26726 *	US-PATENT-3,578,838	c 16	N71-29131 *
US-PATENT-3,541,439	c 09	N71-24843 *	US-PATENT-3,566,027	c 07	N71-27341 *	US-PATENT-3,578,867	c 14	N71-28994 *
US-PATENT-3,541,450	c 07	N71-24840 *	US-PATENT-3,566,045	c 08	N71-27210 *	US-PATENT-3,578,957	c 08	N71-29033 *
US-PATENT-3,541,459	c 10	N71-24844 *	US-PATENT-3,566,122	c 14	N71-27323 *	US-PATENT-3,578,988	c 09	N71-29139 *
US-PATENT-3,541,479	c 09	N71-24841 *	US-PATENT-3,566,143	c 14	N71-27407 *	US-PATENT-3,578,992	c 09	N71-28421 *
US-PATENT-3,541,486	c 16	N71-28554 *	US-PATENT-3,566,158	c 10	N71-27126 *	US-PATENT-3,579,041	c 09	N71-29008 *
US-PATENT-3,541,679	c 03	N71-24681 *	US-PATENT-3,566,268	c 10	N71-26577 *	US-PATENT-3,579,103	c 14	N71-28991 *
US-PATENT-3,541,825	c 15	N71-24836 *	US-PATENT-3,566,396	c 10	N71-26544 *	US-PATENT-3,579,122	c 08	N71-29034 *
US-PATENT-3,541,875	c 15	N71-24984 *	US-PATENT-3,566,459	c 14	N71-27334 *	US-PATENT-3,579,146	c 08	N71-29138 *
US-PATENT-3,543,050	c 10	N71-24862 *	US-PATENT-3,566,676	c 14	N71-26199 *	US-PATENT-3,579,147	c 07	N71-28429 *
US-PATENT-3,543,159	c 09	N71-24717 *	US-PATENT-3,566,993	c 15	N71-27169 *	US-PATENT-3,579,168	c 09	N71-29035 *
US-PATENT-3,543,839	c 34	N78-17337 *	US-PATENT-3,567,155	c 21	N71-27324 *	US-PATENT-3,579,242	c 07	N71-28980 *
US-PATENT-3,545,208	c 28	N71-25213 *	US-PATENT-3,567,339	c 15	N71-27084 *	US-PATENT-3,579,390	c 18	N71-28729 *
US-PATENT-3,545,226	c 23	N71-24725 *	US-PATENT-3,567,651	c 18	N71-27170 *	US-PATENT-3,579,412	c 17	N71-28747 *
US-PATENT-3,545,252	c 11	N71-24985 *	US-PATENT-3,567,677	c 18	N71-25881 *	US-PATENT-3,581,492	c 28	N71-28915 *
US-PATENT-3,545,262	c 38	N76-28563 *	US-PATENT-3,567,861	c 10	N71-25865 *	US-PATENT-3,582,828	c 33	N77-21314 *
US-PATENT-3,545,275	c 09	N71-24597 *	US-PATENT-3,567,913	c 10	N71-27137 *	US-PATENT-3,582,960	c 09	N71-28618 *
US-PATENT-3,545,725	c 15	N71-24599 *	US-PATENT-3,567,927	c 14	N71-28863 *	US-PATENT-3,583,058	c 15	N71-29018 *
US-PATENT-3,545,792	c 15	N71-24903 *	US-PATENT-3,568,010	c 09	N71-27232 *	US-PATENT-3,583,239	c 15	N71-29132 *
US-PATENT-3,546,386	c 07	N71-24621 *	US-PATENT-3,568,028	c 10	N71-27136 *	US-PATENT-3,583,322	c 05	N71-28619 *
US-PATENT-3,546,471	c 14	N71-24864 *	US-PATENT-3,568,103	c 10	N71-25900 *	US-PATENT-3,583,419	c 12	N71-28741 *
US-PATENT-3,546,552	c 15	N71-24895 *	US-PATENT-3,568,197	c 07	N71-27056 *	US-PATENT-3,583,744	c 15	N71-29133 *
US-PATENT-3,546,553	c 09	N71-24805 *	US-PATENT-3,568,447	c 15	N71-27432 *	US-PATENT-3,583,777	c 15	N71-28465 *
US-PATENT-3,546,684	c 07	N71-24624 *	US-PATENT-3,568,572	c 15	N71-27754 *	US-PATENT-3,583,815	c 15	N71-28740 *
US-PATENT-3,546,694	c 10	N71-24798 *	US-PATENT-3,568,702	c 10	N71-25899 *	US-PATENT-3,584,311	c 09	N71-28468 *
US-PATENT-3,546,705	c 09	N71-24842 *	US-PATENT-3,568,748	c 15	N71-27091 *	US-PATENT-3,584,660	c 15	N72-12408 *
US-PATENT-3,546,917	c 15	N71-24679 *	US-PATENT-3,568,795	c 15	N71-27067 *	US-PATENT-3,585,514	c 10	N71-33129 *
US-PATENT-3,546,920	c 06	N71-24607 *	US-PATENT-3,568,805	c 15	N71-27146 *	US-PATENT-3,585,882	c 15	N71-33518 *
US-PATENT-3,546,931	c 32	N71-25360 *	US-PATENT-3,568,874	c 15	N71-27068 *	US-PATENT-3,586,261	c 31	N71-33160 *
US-PATENT-3,547,105	c 09	N71-24618 *	US-PATENT-3,568,885	c 14	N71-27005 *	US-PATENT-3,587,306	c 11	N71-33612 *
US-PATENT-3,547,376	c 31	N71-25434 *	US-PATENT-3,569,710	c 14	N71-25901 *	US-PATENT-3,587,424	c 16	N71-33410 *
US-PATENT-3,547,540	c 16	N71-24828 *	US-PATENT-3,569,744	c 09	N71-27016 *	US-PATENT-3,588,220	c 23	N71-33229 *
US-PATENT-3,547,801	c 03	N71-24718 *	US-PATENT-3,569,804	c 09	N71-25999 *	US-PATENT-3,588,331	c 07	N72-12081 *
US-PATENT-3,548,107	c 07	N71-24622 *	US-PATENT-3,569,827	c 18	N71-27397 *	US-PATENT-3,588,359	c 07	N71-33108 *
US-PATENT-3,548,633	c 18	N71-24934 *	US-PATENT-3,569,828	c 14	N71-27186 *	US-PATENT-3,588,483	c 08	N71-33110 *
US-PATENT-3,548,636	c 15	N71-24910 *	US-PATENT-3,569,866	c 10	N71-27271 *	US-PATENT-3,588,648	c 07	N71-33613 *
US-PATENT-3,548,812	c 05	N71-24729 *	US-PATENT-3,569,875	c 07	N71-27191 *	US-PATENT-3,588,671	c 09	N71-33109 *
US-PATENT-3,548,930	c 33	N71-25353 *	US-PATENT-3,569,956	c 10	N71-25917 *	US-PATENT-3,588,705	c 07	N71-33696 *
US-PATENT-3,549,435	c 14	N72-28438 *	US-PATENT-3,569,976	c 07	N71-27233 *	US-PATENT-3,588,751	c 07	N71-33606 *
US-PATENT-3,549,564	c 06	N71-24739 *	US-PATENT-3,570,143	c 10	N71-27365 *	US-PATENT-3,588,874	c 09	N71-33519 *
US-PATENT-3,549,799	c 09	N71-25866 *	US-PATENT-3,570,364	c 28	N71-26779 *	US-PATENT-3,588,883	c 10	N71-33407 *
US-PATENT-3,549,882	c 15	N71-24896 *	US-PATENT-3,570,513	c 12	N71-27332 *	US-PATENT-3,591,420	c 03	N71-33409 *
US-PATENT-3,549,955	c 09	N71-24892 *	US-PATENT-3,570,785	c 28	N71-27585 *	US-PATENT-3,591,426	c 17	N71-33408 *
US-PATENT-3,550,023	c 09	N71-24806 *	US-PATENT-3,570,789	c 02	N71-27088 *	US-PATENT-3,591,885	c 15	N72-11390 *
US-PATENT-3,550,034	c 16	N71-24832 *	US-PATENT-3,571,555	c 15	N71-27135 *	US-PATENT-3,591,960	c 15	N72-12409 *
US-PATENT-3,550,129	c 21	N71-24948 *	US-PATENT-3,571,656	c 09	N71-27001 *	US-PATENT-3,591,967	c 28	N72-11709 *
US-PATENT-3,550,585	c 05	N71-24738 *						

US-PATENT-3,592,422	c 15	N72-11391 *	US-PATENT-3,614,327	c 08	N72-22162 *	US-PATENT-3,637,051	c 15	N72-20443 *
US-PATENT-3,592,478	c 09	N72-11224 *	US-PATENT-3,614,343	c 07	N72-21119 *	US-PATENT-3,637,170	c 21	N72-21624 *
US-PATENT-3,592,505	c 05	N72-11085 *	US-PATENT-3,614,431	c 14	N72-21408 *	US-PATENT-3,637,312	c 14	N72-20379 *
US-PATENT-3,592,545	c 14	N72-11364 *	US-PATENT-3,614,475	c 10	N72-16172 *	US-PATENT-3,637,842	c 06	N72-20121 *
US-PATENT-3,592,559	c 02	N72-11018 *	US-PATENT-3,614,557	c 26	N72-21701 *	US-PATENT-3,638,002	c 08	N72-21197 *
US-PATENT-3,592,628	c 15	N72-11387 *	US-PATENT-3,614,587	c 09	N72-22196 *	US-PATENT-3,638,066	c 10	N72-20225 *
US-PATENT-3,592,768	c 15	N72-11389 *	US-PATENT-3,614,648	c 09	N72-21247 *	US-PATENT-3,638,103	c 09	N72-21243 *
US-PATENT-3,593,001	c 15	N72-11392 *	US-PATENT-3,614,772	c 08	N72-22163 *	US-PATENT-3,638,114	c 10	N72-20222 *
US-PATENT-3,593,024	c 24	N72-11595 *	US-PATENT-3,614,898	c 15	N72-21462 *	US-PATENT-3,638,224	c 09	N72-21244 *
US-PATENT-3,593,132	c 09	N72-11225 *	US-PATENT-3,614,899	c 09	N72-22195 *	US-PATENT-3,639,250	c 14	N72-22443 *
US-PATENT-3,593,138	c 07	N72-11149 *	US-PATENT-3,615,021	c 15	N72-22483 *	US-PATENT-3,639,510	c 06	N72-22107 *
US-PATENT-3,593,175	c 10	N72-11256 *	US-PATENT-3,615,241	c 15	N72-21465 *	US-PATENT-3,639,809	c 15	N72-22486 *
US-PATENT-3,593,180	c 07	N72-11150 *	US-PATENT-3,615,465	c 06	N72-21094 *	US-PATENT-3,639,835	c 14	N72-22442 *
US-PATENT-3,593,194	c 16	N72-12440 *	US-PATENT-3,615,853	c 03	N72-22042 *	US-PATENT-3,640,256	c 28	N72-22772 *
US-PATENT-3,594,790	c 07	N72-12080 *	US-PATENT-3,616,338	c 15	N72-21466 *	US-PATENT-3,641,470	c 35	N78-17359 *
US-PATENT-3,594,803	c 09	N72-12136 *	US-PATENT-3,616,528	c 03	N72-22041 *	US-PATENT-3,647,276	c 14	N72-22444 *
US-PATENT-3,596,465	c 28	N72-11708 *	US-PATENT-3,617,804	c 25	N72-24753 *	US-PATENT-3,647,529	c 27	N74-23125 *
US-PATENT-3,596,510	c 14	N72-11363 *	US-PATENT-3,618,896	c 15	N72-22487 *	US-PATENT-3,647,924	c 11	N72-23215 *
US-PATENT-3,596,554	c 15	N72-11385 *	US-PATENT-3,619,924	c 11	N72-22247 *	US-PATENT-3,648,043	c 09	N72-23173 *
US-PATENT-3,596,863	c 15	N72-11386 *	US-PATENT-3,620,018	c 28	N72-22771 *	US-PATENT-3,648,083	c 12	N72-25292 *
US-PATENT-3,597,281	c 03	N72-11062 *	US-PATENT-3,620,069	c 14	N72-22440 *	US-PATENT-3,648,152	c 03	N72-23048 *
US-PATENT-3,598,921	c 08	N72-11171 *	US-PATENT-3,620,076	c 11	N72-22246 *	US-PATENT-3,648,209	c 09	N72-27226 *
US-PATENT-3,599,216	c 07	N72-11148 *	US-PATENT-3,620,083	c 14	N72-22438 *	US-PATENT-3,648,250	c 09	N72-25248 *
US-PATENT-3,599,335	c 08	N72-11172 *	US-PATENT-3,620,095	c 15	N72-21463 *	US-PATENT-3,648,256	c 08	N72-25207 *
US-PATENT-3,599,443	c 05	N72-11084 *	US-PATENT-3,620,585	c 15	N72-22490 *	US-PATENT-3,648,275	c 08	N72-25206 *
US-PATENT-3,599,489	c 14	N72-11365 *	US-PATENT-3,620,595	c 14	N72-22445 *	US-PATENT-3,648,461	c 28	N72-23810 *
US-PATENT-3,600,046	c 15	N72-11388 *	US-PATENT-3,620,606	c 23	N72-22673 *	US-PATENT-3,648,516	c 35	N74-22095 *
US-PATENT-3,600,599	c 33	N78-17296 *	US-PATENT-3,620,718	c 17	N72-22535 *	US-PATENT-3,649,242	c 15	N72-25448 *
US-PATENT-3,602,920	c 11	N72-17183 *	US-PATENT-3,620,784	c 18	N72-23581 *	US-PATENT-3,649,353	c 26	N72-28762 *
US-PATENT-3,602,923	c 05	N72-22093 *	US-PATENT-3,620,791	c 18	N72-22566 *	US-PATENT-3,649,356	c 15	N72-25447 *
US-PATENT-3,602,979	c 15	N72-22492 *	US-PATENT-3,620,846	c 31	N72-22874 *	US-PATENT-3,649,462	c 11	N72-25284 *
US-PATENT-3,602,984	c 26	N72-17820 *	US-PATENT-3,621,130	c 08	N72-22164 *	US-PATENT-3,649,907	c 09	N72-23172 *
US-PATENT-3,603,092	c 28	N72-17843 *	US-PATENT-3,621,193	c 15	N72-23497 *	US-PATENT-3,649,921	c 05	N72-23085 *
US-PATENT-3,603,093	c 28	N72-18766 *	US-PATENT-3,621,194	c 15	N72-22491 *	US-PATENT-3,649,935	c 07	N72-25170 *
US-PATENT-3,603,260	c 33	N72-17947 *	US-PATENT-3,621,228	c 08	N72-22165 *	US-PATENT-3,650,095	c 14	N72-23457 *
US-PATENT-3,603,285	c 25	N75-29192 *	US-PATENT-3,621,277	c 10	N72-22236 *	US-PATENT-3,650,474	c 28	N72-23809 *
US-PATENT-3,603,382	c 33	N72-17948 *	US-PATENT-3,621,285	c 09	N72-22200 *	US-PATENT-3,651,008	c 27	N81-24258 *
US-PATENT-3,603,433	c 15	N72-17450 *	US-PATENT-3,621,287	c 09	N72-22201 *	US-PATENT-3,653,052	c 09	N72-25247 *
US-PATENT-3,603,532	c 30	N72-17873 *	US-PATENT-3,621,290	c 09	N72-22202 *	US-PATENT-3,653,882	c 18	N72-25539 *
US-PATENT-3,603,683	c 14	N72-17326 *	US-PATENT-3,621,294	c 09	N72-23171 *	US-PATENT-3,653,970	c 03	N72-24037 *
US-PATENT-3,603,686	c 16	N72-13437 *	US-PATENT-3,621,330	c 33	N77-21316 *	US-PATENT-3,654,036	c 03	N72-25019 *
US-PATENT-3,603,690	c 14	N72-17323 *	US-PATENT-3,621,362	c 09	N72-22203 *	US-PATENT-3,655,814	c 27	N81-15104 *
US-PATENT-3,603,722	c 07	N72-17109 *	US-PATENT-3,621,372	c 09	N72-25249 *	US-PATENT-3,656,313	c 23	N72-25619 *
US-PATENT-3,603,772	c 08	N72-22166 *	US-PATENT-3,621,406	c 09	N72-33204 *	US-PATENT-3,656,317	c 33	N72-25911 *
US-PATENT-3,603,798	c 09	N72-17152 *	US-PATENT-3,621,407	c 09	N72-21245 *	US-PATENT-3,656,352	c 14	N72-25411 *
US-PATENT-3,603,864	c 09	N72-17154 *	US-PATENT-3,621,565	c 09	N72-22199 *	US-PATENT-3,656,781	c 15	N72-25450 *
US-PATENT-3,603,892	c 09	N72-17155 *	US-PATENT-3,623,030	c 08	N72-21198 *	US-PATENT-3,657,190	c 23	N82-29358 *
US-PATENT-3,603,946	c 09	N72-17153 *	US-PATENT-3,623,094	c 10	N72-22235 *	US-PATENT-3,657,549	c 14	N72-25409 *
US-PATENT-3,603,974	c 14	N72-18411 *	US-PATENT-3,623,107	c 07	N72-21117 *	US-PATENT-3,657,644	c 14	N72-24477 *
US-PATENT-3,603,976	c 08	N72-18184 *	US-PATENT-3,623,114	c 07	N72-22127 *	US-PATENT-3,657,928	c 14	N72-25410 *
US-PATENT-3,605,032	c 10	N72-17172 *	US-PATENT-3,623,359	c 35	N77-27367 *	US-PATENT-3,658,295	c 15	N72-25451 *
US-PATENT-3,605,424	c 15	N72-17453 *	US-PATENT-3,623,360	c 14	N72-21405 *	US-PATENT-3,658,569	c 15	N72-25452 *
US-PATENT-3,605,482	c 14	N72-16282 *	US-PATENT-3,623,361	c 14	N72-21407 *	US-PATENT-3,658,608	c 27	N72-25699 *
US-PATENT-3,605,495	c 14	N72-17327 *	US-PATENT-3,623,394	c 15	N72-22488 *	US-PATENT-3,658,974	c 15	N72-24522 *
US-PATENT-3,605,519	c 14	N72-17324 *	US-PATENT-3,623,828	c 15	N72-22489 *	US-PATENT-3,659,043	c 14	N72-25412 *
US-PATENT-3,606,212	c 31	N72-18859 *	US-PATENT-3,623,861	c 17	N72-22530 *	US-PATENT-3,659,053	c 08	N72-25208 *
US-PATENT-3,606,470	c 46	N74-23068 *	US-PATENT-3,624,496	c 15	N72-21464 *	US-PATENT-3,659,148	c 09	N72-25250 *
US-PATENT-3,606,522	c 23	N72-23695 *	US-PATENT-3,624,598	c 21	N72-22619 *	US-PATENT-3,659,184	c 09	N72-25251 *
US-PATENT-3,606,979	c 15	N72-17454 *	US-PATENT-3,624,650	c 07	N72-21118 *	US-PATENT-3,659,225	c 16	N72-25485 *
US-PATENT-3,607,015	c 06	N72-17093 *	US-PATENT-3,624,659	c 09	N72-21246 *	US-PATENT-3,659,292	c 08	N72-25209 *
US-PATENT-3,607,076	c 06	N72-17094 *	US-PATENT-3,624,839	c 05	N72-20098 *	US-PATENT-3,660,240	c 06	N72-25149 *
US-PATENT-3,607,080	c 06	N72-17095 *	US-PATENT-3,625,018	c 15	N72-22484 *	US-PATENT-3,660,434	c 06	N72-25148 *
US-PATENT-3,607,338	c 18	N72-17532 *	US-PATENT-3,625,084	c 15	N72-22485 *	US-PATENT-3,660,704	c 15	N72-25456 *
US-PATENT-3,607,401	c 03	N72-15986 *	US-PATENT-3,625,766	c 03	N72-20032 *	US-PATENT-3,660,851	c 05	N72-25119 *
US-PATENT-3,607,495	c 15	N72-16330 *	US-PATENT-3,626,114	c 35	N79-16246 *	US-PATENT-3,662,337	c 08	N72-25210 *
US-PATENT-3,608,046	c 15	N72-16329 *	US-PATENT-3,626,189	c 14	N72-20381 *	US-PATENT-3,662,441	c 05	N72-25121 *
US-PATENT-3,608,365	c 15	N72-17452 *	US-PATENT-3,626,218	c 14	N72-22439 *	US-PATENT-3,662,547	c 15	N72-25455 *
US-PATENT-3,608,409	c 14	N72-16283 *	US-PATENT-3,626,298	c 07	N72-20140 *	US-PATENT-3,662,604	c 13	N72-25323 *
US-PATENT-3,608,844	c 15	N72-18477 *	US-PATENT-3,626,308	c 10	N72-20223 *	US-PATENT-3,662,661	c 31	N72-25842 *
US-PATENT-3,609,230	c 09	N72-17156 *	US-PATENT-3,626,828	c 14	N72-20380 *	US-PATENT-3,662,744	c 05	N72-25122 *
US-PATENT-3,609,271	c 09	N72-22204 *	US-PATENT-3,628,113	c 37	N77-27400 *	US-PATENT-3,662,973	c 21	N72-25595 *
US-PATENT-3,609,327	c 08	N72-22167 *	US-PATENT-3,629,068	c 22	N72-20597 *	US-PATENT-3,663,346	c 18	N72-25541 *
US-PATENT-3,609,353	c 14	N72-17328 *	US-PATENT-3,629,161	c 18	N72-22567 *	US-PATENT-3,663,347	c 18	N72-25540 *
US-PATENT-3,609,364	c 10	N72-17173 *	US-PATENT-3,630,276	c 33	N72-20915 *	US-PATENT-3,663,464	c 06	N72-25147 *
US-PATENT-3,609,387	c 09	N72-17157 *	US-PATENT-3,630,304	c 11	N72-20244 *	US-PATENT-3,663,521	c 06	N72-25152 *
US-PATENT-3,609,535	c 14	N72-17325 *	US-PATENT-3,630,627	c 03	N72-20033 *	US-PATENT-3,663,753	c 14	N72-25414 *
US-PATENT-3,609,567	c 10	N72-17171 *	US-PATENT-3,631,339	c 08	N72-20177 *	US-PATENT-3,663,828	c 09	N72-25262 *
US-PATENT-3,609,740	c 05	N72-16015 *	US-PATENT-3,631,351	c 10	N72-20224 *	US-PATENT-3,663,839	c 09	N72-25260 *
US-PATENT-3,610,365	c 15	N72-17451 *	US-PATENT-3,631,382	c 09	N72-20200 *	US-PATENT-3,663,843	c 09	N72-25255 *
US-PATENT-3,611,274	c 15	N72-17455 *	US-PATENT-3,631,737	c 15	N72-28495 *	US-PATENT-3,663,885	c 09	N72-25257 *
US-PATENT-3,611,330	c 23	N72-17747 *	US-PATENT-3,632,081	c 15	N72-20442 *	US-PATENT-3,663,886	c 09	N72-25258 *
US-PATENT-3,611,798	c 14	N72-22437 *	US-PATENT-3,632,140	c 15	N72-20445 *	US-PATENT-3,663,929	c 09	N72-25256 *
US-PATENT-3,611,801	c 14	N72-17329 *	US-PATENT-3,632,242	c 15	N72-20446 *	US-PATENT-3,663,938	c 03	N72-25020 *
US-PATENT-3,612,030	c 46	N74-23069 *	US-PATENT-3,632,923	c 09	N72-20199 *	US-PATENT-3,663,940	c 09	N72-25252 *
US-PATENT-3,612,391	c 11	N72-22245 *	US-PATENT-3,632,996	c 08	N72-20176 *	US-PATENT-3,663,941	c 09	N72-25253 *
US-PATENT-3,612,442	c 28	N72-22769 *	US-PATENT-3,633,048	c 10	N72-20221 *	US-PATENT-3,663,944	c 09	N72-25254 *
US-PATENT-3,612,645	c 14	N72-22441 *	US-PATENT-3,633,110	c 07	N72-20141 *	US-PATENT-3,664,185	c 15	N72-26371 *
US-PATENT-3,612,743	c 09	N72-22198 *	US-PATENT-3,634,383	c 27	N73-22710 *	US-PATENT-3,664,874	c 09	N72-25259 *
US-PATENT-3,612,895	c 09	N72-22197 *	US-PATENT-3,635,216	c 05	N72-20096 *	US-PATENT-3,665,064	c 05	N72-25120 *
US-PATENT-3,613,110	c 08	N72-21199 *	US-PATENT-3,635,537	c 33	N80-14330 *	US-PATENT-3,665,307	c 15	N72-25457 *
US-PATENT-3,613,111	c 08	N72-21200 *	US-PATENT-3,635,765	c 03	N72-20034 *	US-PATENT-3,665,313	c 07	N72-25173 *
US-PATENT-3,613,370	c 28	N72-22770 *	US-PATENT-3,636,539	c 03	N72-20031 *	US-PATENT-3,665,417	c 07	N72-25172 *
US-PATENT-3,613,454	c 35	N77-27368 *	US-PATENT-3,636,564	c 05	N72-22092 *	US-PATENT-3,665,467	c 14	N72-28437 *
US-PATENT-3,613,457	c 15	N72-22482 *	US-PATENT-3,636,623	c 15	N72-20444 *	US-PATENT-3,665,481	c 07	N72-25174 *
US-PATENT-3,613,794	c 12	N72-21310 *	US-PATENT-3,636,711	c 28	N72-20758 *	US-PATENT-3,665,589	c 09	N72-25261 *
US-PATENT-3,614,228	c 14	N72-21409 *	US-PATENT-3,636,966	c 05	N72-20097 *	US-PATENT-3,665,669	c 15	N72-25454 *

US-PATENT-3,665,670	c 11	N72-25287 *	US-PATENT-3,700,603	c 14	N73-14428 *	US-PATENT-3,732,409	c 08	N73-26175 *
US-PATENT-3,665,750	c 33	N72-25913 *	US-PATENT-3,700,812	c 10	N73-12244 *	US-PATENT-3,732,567	c 14	N73-25461 *
US-PATENT-3,665,751	c 32	N72-25877 *	US-PATENT-3,700,868	c 09	N73-13209 *	US-PATENT-3,733,350	c 06	N73-26100 *
US-PATENT-3,665,758	c 11	N72-25288 *	US-PATENT-3,700,869	c 08	N73-12175 *	US-PATENT-3,733,424	c 32	N73-26910 *
US-PATENT-3,666,051	c 15	N72-25453 *	US-PATENT-3,700,893	c 14	N73-12444 *	US-PATENT-3,733,463	c 14	N73-26430 *
US-PATENT-3,666,120	c 03	N72-25021 *	US-PATENT-3,700,897	c 14	N73-12445 *	US-PATENT-3,734,432	c 02	N73-26004 *
US-PATENT-3,666,566	c 03	N72-26031 *	US-PATENT-3,700,961	c 23	N73-13660 *	US-PATENT-3,735,206	c 10	N73-25243 *
US-PATENT-3,666,631	c 14	N72-25413 *	US-PATENT-3,701,631	c 17	N73-12547 *	US-PATENT-3,735,591	c 25	N73-25760 *
US-PATENT-3,666,718	c 06	N72-25151 *	US-PATENT-3,701,894	c 07	N73-13149 *	US-PATENT-3,736,453	c 33	N77-22386 *
US-PATENT-3,666,741	c 06	N72-25150 *	US-PATENT-3,702,463	c 08	N73-13187 *	US-PATENT-3,736,607	c 02	N73-26006 *
US-PATENT-3,666,942	c 06	N72-25146 *	US-PATENT-3,702,520	c 32	N73-13921 *	US-PATENT-3,736,764	c 05	N73-26071 *
US-PATENT-3,667,010	c 26	N72-25679 *	US-PATENT-3,702,532	c 15	N73-13467 *	US-PATENT-3,736,849	c 14	N73-26431 *
US-PATENT-3,667,039	c 26	N72-25680 *	US-PATENT-3,702,536	c 28	N73-13773 *	US-PATENT-3,736,938	c 05	N73-27062 *
US-PATENT-3,667,044	c 07	N72-25171 *	US-PATENT-3,702,575	c 15	N73-13466 *	US-PATENT-3,736,956	c 15	N73-26472 *
US-PATENT-3,668,956	c 15	N72-27485 *	US-PATENT-3,702,688	c 31	N73-14854 *	US-PATENT-3,737,117	c 31	N73-26876 *
US-PATENT-3,669,110	c 05	N72-27103 *	US-PATENT-3,702,735	c 23	N73-13661 *	US-PATENT-3,737,118	c 15	N73-25513 *
US-PATENT-3,669,393	c 15	N72-27484 *	US-PATENT-3,702,762	c 06	N73-13129 *	US-PATENT-3,737,121	c 02	N73-26005 *
US-PATENT-3,670,097	c 23	N72-27728 *	US-PATENT-3,702,775	c 06	N73-13128 *	US-PATENT-3,737,181	c 33	N73-26958 *
US-PATENT-3,670,168	c 14	N72-27409 *	US-PATENT-3,702,791	c 15	N73-13465 *	US-PATENT-3,737,217	c 05	N73-26072 *
US-PATENT-3,670,202	c 14	N72-27411 *	US-PATENT-3,702,841	c 18	N73-13562 *	US-PATENT-3,737,231	c 07	N73-26119 *
US-PATENT-3,670,241	c 14	N72-27408 *	US-PATENT-3,702,898	c 10	N73-13235 *	US-PATENT-3,737,237	c 26	N73-26751 *
US-PATENT-3,670,290	c 09	N72-28225 *	US-PATENT-3,702,933	c 23	N73-13662 *	US-PATENT-3,737,639	c 10	N73-26230 *
US-PATENT-3,670,558	c 33	N72-27959 *	US-PATENT-3,702,951	c 09	N73-13208 *	US-PATENT-3,737,676	c 10	N73-26229 *
US-PATENT-3,670,563	c 14	N72-27412 *	US-PATENT-3,702,972	c 16	N73-13489 *	US-PATENT-3,737,757	c 10	N73-26228 *
US-PATENT-3,670,564	c 11	N72-27262 *	US-PATENT-3,702,979	c 14	N73-13420 *	US-PATENT-3,737,762	c 14	N73-28486 *
US-PATENT-3,670,890	c 05	N72-27102 *	US-PATENT-3,704,284	c 74	N81-19898 *	US-PATENT-3,737,776	c 07	N73-26118 *
US-PATENT-3,671,105	c 26	N72-27784 *	US-PATENT-3,704,659	c 14	N73-14427 *	US-PATENT-3,737,781	c 10	N73-25214 *
US-PATENT-3,671,329	c 14	N72-27410 *	US-PATENT-3,705,255	c 15	N73-14469 *	US-PATENT-3,737,815	c 09	N73-26195 *
US-PATENT-3,671,497	c 06	N72-27144 *	US-PATENT-3,705,288	c 15	N73-14468 *	US-PATENT-3,737,824	c 26	N73-26752 *
US-PATENT-3,671,798	c 10	N72-27246 *	US-PATENT-3,705,316	c 09	N73-14214 *	US-PATENT-3,737,905	c 14	N73-26432 *
US-PATENT-3,672,999	c 03	N72-27053 *	US-PATENT-3,705,406	c 07	N73-14130 *	US-PATENT-3,737,912	c 07	N73-26117 *
US-PATENT-3,673,424	c 09	N72-27227 *	US-PATENT-3,706,221	c 14	N73-14429 *	US-PATENT-3,739,646	c 04	N76-26175 *
US-PATENT-3,673,440	c 09	N72-27228 *	US-PATENT-3,706,230	c 31	N73-14855 *	US-PATENT-3,740,671	c 10	N73-27171 *
US-PATENT-3,675,332	c 14	N72-28436 *	US-PATENT-3,706,281	c 31	N73-14853 *	US-PATENT-3,740,725	c 08	N73-26176 *
US-PATENT-3,675,376	c 15	N72-28496 *	US-PATENT-3,706,583	c 18	N73-14584 *	US-PATENT-3,741,001	c 14	N73-27376 *
US-PATENT-3,675,712	c 03	N72-28025 *	US-PATENT-3,706,970	c 21	N73-14692 *	US-PATENT-3,742,316	c 09	N73-27150 *
US-PATENT-3,675,910	c 17	N72-28535 *	US-PATENT-3,708,359	c 27	N73-16764 *	US-PATENT-3,744,128	c 09	N73-28083 *
US-PATENT-3,675,935	c 15	N72-29488 *	US-PATENT-3,708,419	c 33	N73-16918 *	US-PATENT-3,744,148	c 14	N73-28489 *
US-PATENT-3,676,084	c 17	N72-28536 *	US-PATENT-3,708,671	c 14	N73-16483 *	US-PATENT-3,744,247	c 28	N73-27699 *
US-PATENT-3,676,674	c 14	N72-29464 *	US-PATENT-3,708,674	c 14	N73-16484 *	US-PATENT-3,744,294	c 14	N73-27379 *
US-PATENT-3,676,754	c 26	N72-28761 *	US-PATENT-3,709,663	c 06	N73-16106 *	US-PATENT-3,744,305	c 12	N73-28144 *
US-PATENT-3,676,772	c 10	N72-28240 *	US-PATENT-3,710,122	c 16	N73-16536 *	US-PATENT-3,744,320	c 14	N73-28487 *
US-PATENT-3,676,787	c 16	N72-28521 *	US-PATENT-3,710,257	c 07	N73-16121 *	US-PATENT-3,744,480	c 05	N73-27941 *
US-PATENT-3,676,809	c 09	N72-29172 *	US-PATENT-3,710,261	c 10	N73-16205 *	US-PATENT-3,744,510	c 15	N73-27406 *
US-PATENT-3,678,191	c 10	N72-31273 *	US-PATENT-3,710,329	c 10	N73-16206 *	US-PATENT-3,744,738	c 14	N73-27378 *
US-PATENT-3,678,654	c 06	N72-31140 *	US-PATENT-3,711,042	c 02	N73-19004 *	US-PATENT-3,744,739	c 15	N77-10112 *
US-PATENT-3,678,685	c 21	N72-31637 *	US-PATENT-3,711,701	c 74	N77-21941 *	US-PATENT-3,744,794	c 14	N73-27377 *
US-PATENT-3,678,771	c 37	N74-23070 *	US-PATENT-3,712,120	c 14	N73-19421 *	US-PATENT-3,744,912	c 16	N73-30476 *
US-PATENT-3,679,360	c 04	N72-33072 *	US-PATENT-3,712,121	c 14	N73-19420 *	US-PATENT-3,744,913	c 14	N73-28490 *
US-PATENT-3,679,899	c 06	N72-31141 *	US-PATENT-3,712,132	c 14	N73-20478 *	US-PATENT-3,744,972	c 17	N73-27446 *
US-PATENT-3,680,142	c 09	N72-31235 *	US-PATENT-3,712,195	c 14	N73-19419 *	US-PATENT-3,745,082	c 18	N73-30532 *
US-PATENT-3,680,144	c 07	N72-32169 *	US-PATENT-3,712,591	c 15	N73-19458 *	US-PATENT-3,745,089	c 06	N73-27086 *
US-PATENT-3,680,830	c 15	N72-31483 *	US-PATENT-3,713,163	c 09	N73-19234 *	US-PATENT-3,745,090	c 04	N73-27052 *
US-PATENT-3,681,581	c 08	N72-31226 *	US-PATENT-3,713,290	c 28	N73-19793 *	US-PATENT-3,745,149	c 06	N73-27980 *
US-PATENT-3,686,542	c 14	N72-31446 *	US-PATENT-3,713,480	c 05	N73-20137 *	US-PATENT-3,745,255	c 07	N73-28012 *
US-PATENT-3,690,291	c 15	N72-32487 *	US-PATENT-3,713,987	c 15	N73-20514 *	US-PATENT-3,745,300	c 15	N73-28515 *
US-PATENT-3,692,533	c 05	N72-33096 *	US-PATENT-3,714,332	c 15	N73-19457 *	US-PATENT-3,745,352	c 08	N73-30135 *
US-PATENT-3,693,002	c 25	N72-32688 *	US-PATENT-3,714,405	c 10	N73-20253 *	US-PATENT-3,745,357	c 14	N73-28488 *
US-PATENT-3,693,105	c 10	N72-33230 *	US-PATENT-3,714,432	c 14	N73-20475 *	US-PATENT-3,745,410	c 09	N73-30181 *
US-PATENT-3,693,346	c 15	N72-33477 *	US-PATENT-3,714,526	c 09	N73-19235 *	US-PATENT-3,745,475	c 14	N73-30386 *
US-PATENT-3,693,418	c 14	N72-33377 *	US-PATENT-3,714,588	c 09	N73-20231 *	US-PATENT-3,745,739	c 15	N73-27405 *
US-PATENT-3,694,041	c 15	N72-33476 *	US-PATENT-3,714,624	c 14	N73-20474 *	US-PATENT-3,745,816	c 33	N73-27796 *
US-PATENT-3,694,094	c 14	N72-32452 *	US-PATENT-3,714,645	c 08	N73-20217 *	US-PATENT-3,746,998	c 07	N73-30113 *
US-PATENT-3,694,313	c 24	N72-33681 *	US-PATENT-3,714,821	c 14	N73-20476 *	US-PATENT-3,747,111	c 07	N73-28013 *
US-PATENT-3,694,581	c 08	N72-33172 *	US-PATENT-3,714,833	c 11	N73-20267 *	US-PATENT-3,748,722	c 15	N73-33383 *
US-PATENT-3,694,655	c 25	N72-33696 *	US-PATENT-3,715,092	c 03	N73-20039 *	US-PATENT-3,748,853	c 23	N73-30665 *
US-PATENT-3,694,700	c 09	N72-33205 *	US-PATENT-3,715,152	c 23	N73-20741 *	US-PATENT-3,748,905	c 14	N73-30395 *
US-PATENT-3,694,753	c 07	N72-33146 *	US-PATENT-3,715,590	c 14	N73-20477 *	US-PATENT-3,749,123	c 15	N73-30459 *
US-PATENT-3,694,771	c 09	N73-15235 *	US-PATENT-3,715,600	c 03	N73-20040 *	US-PATENT-3,749,156	c 31	N73-30829 *
US-PATENT-3,695,101	c 11	N73-12264 *	US-PATENT-3,715,660	c 07	N73-20175 *	US-PATENT-3,749,205	c 15	N73-30460 *
US-PATENT-3,696,418	c 09	N73-12211 *	US-PATENT-3,715,663	c 07	N73-20174 *	US-PATENT-3,749,332	c 31	N73-32750 *
US-PATENT-3,696,833	c 11	N73-12265 *	US-PATENT-3,715,693	c 09	N73-20232 *	US-PATENT-3,749,362	c 15	N73-30457 *
US-PATENT-3,697,021	c 15	N73-12486 *	US-PATENT-3,715,723	c 07	N73-20176 *	US-PATENT-3,749,831	c 07	N73-30115 *
US-PATENT-3,697,630	c 15	N73-12489 *	US-PATENT-3,715,915	c 32	N73-20740 *	US-PATENT-3,749,911	c 14	N73-30389 *
US-PATENT-3,697,705	c 35	N77-21392 *	US-PATENT-3,718,863	c 10	N73-20254 *	US-PATENT-3,750,016	c 14	N73-30388 *
US-PATENT-3,697,733	c 08	N73-12176 *	US-PATENT-3,719,891	c 07	N73-25160 *	US-PATENT-3,750,035	c 33	N77-13315 *
US-PATENT-3,697,950	c 08	N73-12177 *	US-PATENT-3,720,075	c 33	N73-25952 *	US-PATENT-3,750,067	c 09	N73-30185 *
US-PATENT-3,697,968	c 21	N73-13644 *	US-PATENT-3,720,208	c 05	N73-25125 *	US-PATENT-3,750,131	c 10	N73-30205 *
US-PATENT-3,698,385	c 05	N73-13114 *	US-PATENT-3,723,745	c 14	N73-25462 *	US-PATENT-3,750,168	c 21	N73-30641 *
US-PATENT-3,698,412	c 14	N73-13418 *	US-PATENT-3,728,861	c 28	N73-24783 *	US-PATENT-3,750,479	c 05	N73-30078 *
US-PATENT-3,698,659	c 11	N73-13257 *	US-PATENT-3,729,068	c 15	N73-25512 *	US-PATENT-3,751,123	c 15	N73-30458 *
US-PATENT-3,698,667	c 02	N73-13008 *	US-PATENT-3,729,129	c 08	N73-25206 *	US-PATENT-3,751,727	c 05	N73-32012 *
US-PATENT-3,698,848	c 15	N73-13464 *	US-PATENT-3,729,260	c 14	N73-25463 *	US-PATENT-3,751,733	c 05	N73-32013 *
US-PATENT-3,699,511	c 21	N73-13643 *	US-PATENT-3,729,343	c 14	N73-24472 *	US-PATENT-3,751,913	c 06	N73-30097 *
US-PATENT-3,699,645	c 14	N73-13417 *	US-PATENT-3,729,676	c 14	N73-24473 *	US-PATENT-3,751,980	c 14	N73-32326 *
US-PATENT-3,699,799	c 15	N73-13463 *	US-PATENT-3,729,736	c 07	N73-25161 *	US-PATENT-3,752,556	c 35	N74-17153 *
US-PATENT-3,699,807	c 14	N73-13416 *	US-PATENT-3,729,743	c 07	N73-24176 *	US-PATENT-3,752,559	c 14	N73-30393 *
US-PATENT-3,699,811	c 14	N73-13415 *	US-PATENT-3,729,935	c 28	N73-24784 *	US-PATENT-3,752,564	c 23	N73-30666 *
US-PATENT-3,700,005	c 15	N73-13462 *	US-PATENT-3,730,287	c 11	N73-26238 *	US-PATENT-3,752,665	c 18	N73-32437 *
US-PATENT-3,700,192	c 31	N73-13898 *	US-PATENT-3,730,891	c 18	N73-26572 *	US-PATENT-3,752,847	c 06	N73-30098 *
US-PATENT-3,700,193	c 30	N73-12884 *	US-PATENT-3,731,528	c 12	N73-25262 *	US-PATENT-3,752,986	c 14	N73-30392 *
US-PATENT-3,700,291	c 15	N73-12488 *	US-PATENT-3,731,531	c 14	N73-25460 *	US-PATENT-3,752,993	c 21	N73-30640 *
US-PATENT-3,700,334	c 14	N73-12446 *	US-PATENT-3,732,040	c 15	N73-24513 *	US-PATENT-3,752,996	c 91	N74-13130 *
US-PATENT-3,700,503	c 14	N73-12447 *	US-PATENT-3,732,158	c 17	N73-24569 *	US-PATENT-3,753,148	c 09	N73-32111 *
US-PATENT-3,700,538	c 18	N73-12604 *	US-PATENT-3,732,397	c 33	N74-14935 *	US-PATENT-3,754,236	c 08	N73-32081 *
US-PATENT-3,700,575	c 15	N73-12487 *	US-PATENT-3,732,405	c 10	N73-25240 *	US-PATENT-3,754,263	c 09	N73-32110 *

US-PATENT-3,754,976	c 15	N73-32360 *	US-PATENT-3,782,698	c 35	N74-15093 *	US-PATENT-3,813,183	c 37	N74-25968 *
US-PATENT-3,755,265	c 06	N73-33076 *	US-PATENT-3,782,699	c 35	N74-15126 *	US-PATENT-3,813,875	c 15	N74-27360 *
US-PATENT-3,755,283	c 06	N73-32029 *	US-PATENT-3,782,737	c 37	N74-15125 *	US-PATENT-3,813,937	c 34	N74-27859 *
US-PATENT-3,755,686	c 03	N73-31988 *	US-PATENT-3,782,825	c 35	N74-15146 *	US-PATENT-3,814,083	c 52	N74-26626 *
US-PATENT-3,756,920	c 05	N73-32011 *	US-PATENT-3,782,835	c 74	N74-15095 *	US-PATENT-3,814,350	c 18	N74-27397 *
US-PATENT-3,757,183	c 09	N73-32107 *	US-PATENT-3,782,904	c 35	N74-15127 *	US-PATENT-3,814,645	c 24	N74-30001 *
US-PATENT-3,757,476	c 31	N73-32749 *	US-PATENT-3,783,250	c 62	N74-14920 *	US-PATENT-3,814,653	c 24	N74-27035 *
US-PATENT-3,757,568	c 14	N73-32323 *	US-PATENT-3,783,354	c 33	N74-14956 *	US-PATENT-3,814,778	c 25	N74-26948 *
US-PATENT-3,757,659	c 14	N73-32322 *	US-PATENT-3,783,399	c 33	N74-14939 *	US-PATENT-3,814,939	c 25	N74-26947 *
US-PATENT-3,758,112	c 05	N73-32014 *	US-PATENT-3,783,443	c 35	N74-16135 *	US-PATENT-3,815,048	c 33	N74-26732 *
US-PATENT-3,758,718	c 10	N73-32143 *	US-PATENT-3,784,499	c 27	N74-17283 *	US-PATENT-3,815,109	c 52	N74-26625 *
US-PATENT-3,758,741	c 15	N73-32358 *	US-PATENT-3,785,836	c 27	N82-29452 *	US-PATENT-3,815,205	c 33	N74-26977 *
US-PATENT-3,758,781	c 14	N73-32317 *	US-PATENT-3,787,959	c 37	N74-18128 *	US-PATENT-3,815,969	c 35	N74-26946 *
US-PATENT-3,758,877	c 16	N73-32391 *	US-PATENT-3,788,163	c 37	N74-18127 *	US-PATENT-3,816,657	c 32	N74-26654 *
US-PATENT-3,759,152	c 14	N73-32319 *	US-PATENT-3,789,654	c 25	N74-18551 *	US-PATENT-3,816,785	c 73	N74-26767 *
US-PATENT-3,759,249	c 05	N73-32015 *	US-PATENT-3,789,820	c 34	N74-18552 *	US-PATENT-3,817,082	c 34	N74-27730 *
US-PATENT-3,759,443	c 28	N73-32606 *	US-PATENT-3,789,947	c 37	N74-18125 *	US-PATENT-3,817,084	c 31	N74-27900 *
US-PATENT-3,759,588	c 15	N73-32359 *	US-PATENT-3,790,037	c 54	N74-17853 *	US-PATENT-3,817,622	c 75	N74-30156 *
US-PATENT-3,759,672	c 14	N73-32320 *	US-PATENT-3,790,347	c 37	N74-18123 *	US-PATENT-3,817,627	c 35	N74-27860 *
US-PATENT-3,759,746	c 09	N73-32108 *	US-PATENT-3,790,409	c 44	N74-19693 *	US-PATENT-3,818,325	c 44	N74-27519 *
US-PATENT-3,759,747	c 44	N74-19692 *	US-PATENT-3,790,432	c 37	N74-18126 *	US-PATENT-3,818,346	c 33	N74-27705 *
US-PATENT-3,759,787	c 22	N73-32528 *	US-PATENT-3,790,650	c 31	N74-18124 *	US-PATENT-3,818,767	c 35	N74-28097 *
US-PATENT-3,760,239	c 09	N73-32112 *	US-PATENT-3,790,795	c 35	N74-18088 *	US-PATENT-3,818,775	c 37	N74-27901 *
US-PATENT-3,760,248	c 10	N73-32145 *	US-PATENT-3,790,906	c 33	N74-17927 *	US-PATENT-3,818,814	c 31	N74-27902 *
US-PATENT-3,760,257	c 09	N73-32109 *	US-PATENT-3,791,207	c 09	N74-17955 *	US-PATENT-3,819,299	c 37	N74-27904 *
US-PATENT-3,760,268	c 14	N73-32318 *	US-PATENT-3,792,399	c 33	N74-17928 *	US-PATENT-3,819,419	c 34	N74-27861 *
US-PATENT-3,760,394	c 10	N73-32144 *	US-PATENT-3,793,109	c 31	N74-18089 *	US-PATENT-3,819,440	c 32	N74-27612 *
US-PATENT-3,762,884	c 17	N73-32414 *	US-PATENT-3,795,134	c 09	N74-19528 *	US-PATENT-3,819,550	c 27	N74-27037 *
US-PATENT-3,762,918	c 17	N73-32415 *	US-PATENT-3,795,448	c 72	N74-19310 *	US-PATENT-3,820,095	c 33	N74-27862 *
US-PATENT-3,763,204	c 06	N73-32030 *	US-PATENT-3,795,840	c 33	N74-17929 *	US-PATENT-3,820,286	c 37	N74-27905 *
US-PATENT-3,763,552	c 26	N73-32571 *	US-PATENT-3,795,858	c 35	N74-18090 *	US-PATENT-3,820,388	c 35	N74-27865 *
US-PATENT-3,763,691	c 14	N73-32327 *	US-PATENT-3,795,862	c 33	N74-17930 *	US-PATENT-3,820,529	c 52	N74-27864 *
US-PATENT-3,763,708	c 35	N74-18323 *	US-PATENT-3,795,900	c 35	N74-17885 *	US-PATENT-3,820,630	c 07	N74-27490 *
US-PATENT-3,763,740	c 11	N73-32152 *	US-PATENT-3,795,910	c 44	N74-19870 *	US-PATENT-3,820,741	c 37	N74-27903 *
US-PATENT-3,763,928	c 33	N73-32818 *	US-PATENT-3,796,473	c 37	N74-20063 *	US-PATENT-3,820,918	c 07	N74-28226 *
US-PATENT-3,764,097	c 02	N74-10034 *	US-PATENT-3,796,592	c 24	N74-19769 *	US-PATENT-3,821,102	c 34	N74-27744 *
US-PATENT-3,764,209	c 14	N73-33361 *	US-PATENT-3,797,098	c 37	N74-21057 *	US-PATENT-3,821,462	c 33	N74-27683 *
US-PATENT-3,764,220	c 16	N73-33397 *	US-PATENT-3,797,919	c 70	N74-21300 *	US-PATENT-3,821,546	c 33	N74-27682 *
US-PATENT-3,764,790	c 33	N74-10223 *	US-PATENT-3,798,741	c 31	N74-21059 *	US-PATENT-3,821,556	c 74	N74-27866 *
US-PATENT-3,764,850	c 33	N74-10195 *	US-PATENT-3,798,748	c 37	N74-21055 *	US-PATENT-3,824,707	c 09	N74-30597 *
US-PATENT-3,764,933	c 33	N74-10194 *	US-PATENT-3,798,778	c 19	N74-21015 *	US-PATENT-3,825,760	c 19	N74-29410 *
US-PATENT-3,765,229	c 35	N74-10415 *	US-PATENT-3,798,896	c 37	N74-21060 *	US-PATENT-3,826,448	c 08	N74-30421 *
US-PATENT-3,765,958	c 26	N74-10521 *	US-PATENT-3,799,149	c 52	N74-20728 *	US-PATENT-3,826,726	c 25	N74-30502 *
US-PATENT-3,766,315	c 32	N74-10132 *	US-PATENT-3,799,475	c 02	N74-20646 *	US-PATENT-3,826,729	c 20	N74-31269 *
US-PATENT-3,766,380	c 35	N74-11284 *	US-PATENT-3,799,793	c 74	N74-20008 *	US-PATENT-3,826,964	c 33	N74-29556 *
US-PATENT-3,767,212	c 37	N74-10474 *	US-PATENT-3,799,813	c 76	N74-20329 *	US-PATENT-3,827,288	c 71	N74-31148 *
US-PATENT-3,769,544	c 31	N78-17238 *	US-PATENT-3,800,074	c 36	N74-20009 *	US-PATENT-3,827,807	c 89	N74-30886 *
US-PATENT-3,769,623	c 32	N74-11000 *	US-PATENT-3,800,082	c 71	N74-21014 *	US-PATENT-3,828,137	c 32	N74-30524 *
US-PATENT-3,769,689	c 37	N74-11301 *	US-PATENT-3,800,224	c 32	N74-19790 *	US-PATENT-3,828,138	c 32	N74-30523 *
US-PATENT-3,769,834	c 52	N74-10975 *	US-PATENT-3,800,227	c 32	N74-20809 *	US-PATENT-3,828,524	c 34	N74-30608 *
US-PATENT-3,770,021	c 33	N74-11050 *	US-PATENT-3,800,237	c 32	N74-19788 *	US-PATENT-3,829,237	c 07	N74-31270 *
US-PATENT-3,770,903	c 35	N74-11283 *	US-PATENT-3,800,253	c 37	N74-21056 *	US-PATENT-3,829,839	c 60	N76-18800 *
US-PATENT-3,770,933	c 37	N74-11300 *	US-PATENT-3,801,617	c 37	N74-21058 *	US-PATENT-3,830,060	c 44	N74-33379 *
US-PATENT-3,771,037	c 08	N74-10942 *	US-PATENT-3,802,249	c 35	N74-21019 *	US-PATENT-3,830,094	c 35	N74-32879 *
US-PATENT-3,771,040	c 33	N74-11049 *	US-PATENT-3,802,253	c 52	N74-20726 *	US-PATENT-3,830,335	c 07	N74-32418 *
US-PATENT-3,771,074	c 36	N74-11313 *	US-PATENT-3,802,262	c 35	N74-21018 *	US-PATENT-3,830,431	c 07	N74-33218 *
US-PATENT-3,771,959	c 25	N74-12813 *	US-PATENT-3,802,660	c 37	N74-21065 *	US-PATENT-3,830,552	c 37	N74-32921 *
US-PATENT-3,772,174	c 27	N74-13270 *	US-PATENT-3,802,753	c 37	N74-21064 *	US-PATENT-3,830,609	c 31	N74-32920 *
US-PATENT-3,772,216	c 27	N74-12812 *	US-PATENT-3,802,779	c 74	N74-21304 *	US-PATENT-3,830,673	c 28	N74-33209 *
US-PATENT-3,772,220	c 27	N74-12814 *	US-PATENT-3,803,090	c 27	N74-21156 *	US-PATENT-3,831,098	c 33	N74-32711 *
US-PATENT-3,772,272	c 33	N74-12887 *	US-PATENT-3,803,393	c 60	N74-20836 *	US-PATENT-3,831,117	c 33	N74-32712 *
US-PATENT-3,772,418	c 31	N74-13177 *	US-PATENT-3,803,445	c 32	N74-20813 *	US-PATENT-3,831,142	c 32	N74-32598 *
US-PATENT-3,772,691	c 32	N74-12912 *	US-PATENT-3,803,617	c 32	N74-20863 *	US-PATENT-3,832,290	c 20	N74-32919 *
US-PATENT-3,773,038	c 52	N74-12778 *	US-PATENT-3,804,472	c 37	N74-21061 *	US-PATENT-3,832,735	c 54	N74-32546 *
US-PATENT-3,773,913	c 46	N74-13011 *	US-PATENT-3,804,506	c 33	N74-20861 *	US-PATENT-3,832,764	c 37	N74-32918 *
US-PATENT-3,775,101	c 37	N74-13179 *	US-PATENT-3,804,525	c 36	N74-21091 *	US-PATENT-3,832,781	c 35	N74-32877 *
US-PATENT-3,775,570	c 35	N78-29421 *	US-PATENT-3,804,703	c 37	N74-21063 *	US-PATENT-3,832,903	c 35	N74-32878 *
US-PATENT-3,776,028	c 35	N74-13129 *	US-PATENT-3,805,266	c 32	N74-20864 *	US-PATENT-3,833,322	c 31	N74-32917 *
US-PATENT-3,776,432	c 37	N74-13178 *	US-PATENT-3,805,303	c 54	N74-20725 *	US-PATENT-3,833,336	c 25	N74-33378 *
US-PATENT-3,776,455	c 04	N74-13420 *	US-PATENT-3,805,622	c 35	N74-21062 *	US-PATENT-3,833,857	c 33	N74-32660 *
US-PATENT-3,777,200	c 33	N74-12913 *	US-PATENT-3,806,756	c 33	N74-21850 *	US-PATENT-3,835,318	c 35	N74-34857 *
US-PATENT-3,777,490	c 20	N74-13502 *	US-PATENT-3,806,802	c 35	N74-21017 *	US-PATENT-3,837,285	c 85	N74-34672 *
US-PATENT-3,777,546	c 35	N74-13132 *	US-PATENT-3,806,815	c 32	N74-20811 *	US-PATENT-3,837,908	c 76	N79-16678 *
US-PATENT-3,777,552	c 38	N74-15130 *	US-PATENT-3,806,816	c 32	N74-20810 *	US-PATENT-3,840,829	c 33	N74-34638 *
US-PATENT-3,777,605	c 39	N74-13131 *	US-PATENT-3,806,831	c 33	N74-20862 *	US-PATENT-3,841,973	c 35	N75-12272 *
US-PATENT-3,777,811	c 34	N78-17336 *	US-PATENT-3,806,834	c 36	N76-18427 *	US-PATENT-3,842,485	c 37	N75-12326 *
US-PATENT-3,777,942	c 54	N74-12779 *	US-PATENT-3,806,835	c 33	N74-20859 *	US-PATENT-3,842,509	c 35	N75-12273 *
US-PATENT-3,778,685	c 33	N74-12951 *	US-PATENT-3,806,932	c 33	N74-20860 *	US-PATENT-3,842,656	c 76	N75-12610 *
US-PATENT-3,778,786	c 60	N74-12888 *	US-PATENT-3,807,384	c 34	N74-23039 *	US-PATENT-3,845,466	c 74	N81-19896 *
US-PATENT-3,778,791	c 36	N74-13205 *	US-PATENT-3,807,656	c 18	N74-22136 *	US-PATENT-3,846,243	c 25	N75-12086 *
US-PATENT-3,779,788	c 70	N74-13436 *	US-PATENT-3,808,464	c 33	N74-22814 *	US-PATENT-3,847,115	c 31	N75-12161 *
US-PATENT-3,780,151	c 31	N74-14133 *	US-PATENT-3,808,511	c 33	N74-22864 *	US-PATENT-3,847,141	c 35	N75-12271 *
US-PATENT-3,780,424	c 44	N74-14784 *	US-PATENT-3,808,517	c 33	N74-22885 *	US-PATENT-3,847,208	c 34	N75-12222 *
US-PATENT-3,780,563	c 35	N74-15092 *	US-PATENT-3,809,481	c 35	N74-23040 *	US-PATENT-3,847,652	c 25	N75-12087 *
US-PATENT-3,780,827	c 07	N74-15453 *	US-PATENT-3,809,601	c 37	N74-23064 *	US-PATENT-3,847,689	c 74	N75-12732 *
US-PATENT-3,780,966	c 19	N74-15089 *	US-PATENT-3,809,800	c 33	N74-22865 *	US-PATENT-3,848,190	c 35	N75-12270 *
US-PATENT-3,781,111	c 36	N74-15145 *	US-PATENT-3,809,871	c 52	N74-22771 *	US-PATENT-3,849,554	c 52	N75-15270 *
US-PATENT-3,781,549	c 35	N74-15090 *	US-PATENT-3,810,829	c 31	N74-23065 *	US-PATENT-3,849,668	c 54	N75-12616 *
US-PATENT-3,781,562	c 35	N74-15091 *	US-PATENT-3,811,044	c 34	N74-23066 *	US-PATENT-3,849,720	c 33	N77-26387 *
US-PATENT-3,781,902	c 35	N74-15831 *	US-PATENT-3,811,094	c 33	N74-21851 *	US-PATENT-3,849,865	c 37	N75-13261 *
US-PATENT-3,781,933	c 54	N74-14845 *	US-PATENT-3,811,429	c 52	N74-27566 *	US-PATENT-3,849,877	c 35	N75-13213 *
US-PATENT-3,781,958	c 37	N74-15128 *	US-PATENT-3,811,901	c 27	N82-29454 *	US-PATENT-3,850,169	c 24	N75-13032 *
US-PATENT-3,782,177	c 38	N74-15395 *	US-PATENT-3,812,358	c 35	N74-26949 *	US-PATENT-3,850,388	c 54	N75-13531 *
US-PATENT-3,782,181	c 34	N74-15652 *	US-PATENT-3,812,783	c 28	N74-27425 *	US-PATENT-3,850,567	c 05	N75-12930 *
US-PATENT-3,782,205	c 35	N74-15094 *	US-PATENT-3,812,924	c 35	N74-26945 *	US-PATENT-3,850,754	c 31	N75-13111 *
US-PATENT-3,782,334	c 51	N74-15778 *	US-PATENT-3,812,936	c 37	N74-26976 *		c 51	N75-13502 *

US-PATENT-3,851,162	c 60	N75-13539 *	US-PATENT-3,889,185	c 33	N75-26246 *	US-PATENT-3,927,324	c 35	N76-15433 *
US-PATENT-3,851,238	c 33	N75-13139 *	US-PATENT-3,889,264	c 32	N75-26194 *	US-PATENT-3,927,408	c 32	N76-15329 *
US-PATENT-3,851,250	c 15	N75-13007 *	US-PATENT-3,891,311	c 54	N75-27759 *	US-PATENT-3,928,708	c 27	N76-16230 *
US-PATENT-3,853,003	c 09	N75-12969 *	US-PATENT-3,891,452	c 27	N75-27160 *	US-PATENT-3,929,119	c 75	N76-17951 *
US-PATENT-3,853,075	c 09	N75-12968 *	US-PATENT-3,891,533	c 33	N75-27252 *	US-PATENT-3,929,305	c 34	N76-17317 *
US-PATENT-3,854,097	c 75	N75-13625 *	US-PATENT-3,891,848	c 45	N75-27585 *	US-PATENT-3,929,306	c 18	N76-17185 *
US-PATENT-3,854,113	c 37	N75-13265 *	US-PATENT-3,891,851	c 35	N75-27331 *	US-PATENT-3,929,364	c 35	N76-16392 *
US-PATENT-3,855,873	c 37	N75-13266 *	US-PATENT-3,893,449	c 54	N75-27760 *	US-PATENT-3,930,628	c 02	N76-16014 *
US-PATENT-3,856,042	c 37	N75-15050 *	US-PATENT-3,893,458	c 54	N75-27761 *	US-PATENT-3,930,735	c 66	N76-19888 *
US-PATENT-3,856,402	c 36	N75-15028 *	US-PATENT-3,893,573	c 18	N75-27041 *	US-PATENT-3,931,132	c 27	N76-16228 *
US-PATENT-3,856,471	c 25	N75-14844 *	US-PATENT-3,894,289	c 36	N75-27364 *	US-PATENT-3,931,447	c 27	N76-16229 *
US-PATENT-3,856,534	c 23	N75-14834 *	US-PATENT-3,894,677	c 24	N75-28135 *	US-PATENT-3,931,456	c 33	N76-16332 *
US-PATENT-3,857,031	c 35	N75-15014 *	US-PATENT-3,894,887	c 44	N76-18641 *	US-PATENT-3,931,462	c 45	N76-17656 *
US-PATENT-3,857,045	c 33	N75-14957 *	US-PATENT-3,895,521	c 35	N75-29381 *	US-PATENT-3,931,516	c 35	N76-16393 *
US-PATENT-3,859,119	c 36	N75-15029 *	US-PATENT-3,895,912	c 35	N75-29380 *	US-PATENT-3,931,532	c 44	N76-16612 *
US-PATENT-3,859,714	c 37	N75-15992 *	US-PATENT-3,896,758	c 35	N75-33367 *	US-PATENT-3,932,262	c 25	N79-10163 *
US-PATENT-3,859,714	c 24	N79-25143 *	US-PATENT-3,896,955	c 37	N77-22480 *	US-PATENT-3,936,927	c 37	N76-19437 *
US-PATENT-3,859,736	c 09	N75-15662 *	US-PATENT-3,898,578	c 33	N75-30428 *	US-PATENT-3,937,055	c 37	N76-18454 *
US-PATENT-3,859,840	c 35	N75-15932 *	US-PATENT-3,898,730	c 24	N75-30260 *	US-PATENT-3,937,212	c 33	N76-19338 *
US-PATENT-3,859,845	c 35	N75-15931 *	US-PATENT-3,898,882	c 35	N75-30503 *	US-PATENT-3,937,215	c 52	N76-19785 *
US-PATENT-3,860,342	c 35	N75-16783 *	US-PATENT-3,899,224	c 37	N75-30562 *	US-PATENT-3,937,387	c 37	N76-18455 *
US-PATENT-3,860,393	c 25	N76-18245 *	US-PATENT-3,899,252	c 35	N75-30502 *	US-PATENT-3,937,533	c 37	N76-18459 *
US-PATENT-3,860,858	c 33	N75-15874 *	US-PATENT-3,899,517	c 23	N75-30256 *	US-PATENT-3,937,555	c 35	N76-18402 *
US-PATENT-3,860,921	c 32	N75-15854 *	US-PATENT-3,899,680	c 73	N75-30876 *	US-PATENT-3,937,661	c 37	N76-18456 *
US-PATENT-3,860,946	c 33	N79-11314 *	US-PATENT-3,899,696	c 36	N75-30524 *	US-PATENT-3,937,945	c 74	N76-18913 *
US-PATENT-3,863,881	c 37	N75-18573 *	US-PATENT-3,899,745	c 33	N75-30429 *	US-PATENT-3,938,035	c 33	N76-19339 *
US-PATENT-3,864,060	c 35	N75-19611 *	US-PATENT-3,900,705	c 33	N75-30431 *	US-PATENT-3,938,037	c 26	N76-18257 *
US-PATENT-3,864,239	c 37	N75-19684 *	US-PATENT-3,900,741	c 35	N75-30504 *	US-PATENT-3,938,162	c 32	N76-18295 *
US-PATENT-3,864,542	c 37	N75-19683 *	US-PATENT-3,900,847	c 03	N75-30132 *	US-PATENT-3,938,182	c 33	N76-18353 *
US-PATENT-3,864,797	c 20	N75-18310 *	US-PATENT-3,902,143	c 33	N75-30430 *	US-PATENT-3,938,188	c 33	N76-18345 *
US-PATENT-3,864,953	c 35	N75-19615 *	US-PATENT-3,903,699	c 44	N75-32581 *	US-PATENT-3,938,367	c 35	N76-18401 *
US-PATENT-3,864,960	c 35	N75-19612 *	US-PATENT-3,905,356	c 33	N75-31329 *	US-PATENT-3,938,373	c 35	N76-18400 *
US-PATENT-3,865,442	c 37	N75-18574 *	US-PATENT-3,905,660	c 37	N75-31446 *	US-PATENT-3,938,742	c 07	N76-18117 *
US-PATENT-3,865,975	c 36	N75-19652 *	US-PATENT-3,906,231	c 33	N75-31332 *	US-PATENT-3,938,892	c 74	N76-19935 *
US-PATENT-3,866,022	c 33	N75-19519 *	US-PATENT-3,906,296	c 33	N75-31331 *	US-PATENT-3,938,956	c 35	N76-18403 *
US-PATENT-3,866,114	c 33	N75-18477 *	US-PATENT-3,906,374	c 33	N75-31330 *	US-PATENT-3,939,048	c 37	N76-18458 *
US-PATENT-3,866,128	c 33	N75-19515 *	US-PATENT-3,906,393	c 36	N75-31427 *	US-PATENT-3,939,439	c 36	N76-18428 *
US-PATENT-3,866,210	c 33	N75-19517 *	US-PATENT-3,906,397	c 36	N75-31426 *	US-PATENT-3,940,097	c 34	N76-18364 *
US-PATENT-3,866,233	c 33	N75-19516 *	US-PATENT-3,906,398	c 36	N75-32441 *	US-PATENT-3,940,621	c 34	N76-18374 *
US-PATENT-3,866,863	c 18	N75-19329 *	US-PATENT-3,906,769	c 24	N75-33181 *	US-PATENT-3,941,355	c 37	N76-19436 *
US-PATENT-3,867,677	c 33	N75-19524 *	US-PATENT-3,906,788	c 35	N75-33369 *	US-PATENT-3,942,398	c 37	N76-20480 *
US-PATENT-3,868,591	c 36	N75-19655 *	US-PATENT-3,906,913	c 37	N76-18457 *	US-PATENT-3,943,368	c 74	N76-20958 *
US-PATENT-3,868,830	c 77	N75-20139 *	US-PATENT-3,906,954	c 52	N75-33640 *	US-PATENT-3,943,442	c 76	N76-20994 *
US-PATENT-3,868,856	c 35	N75-19614 *	US-PATENT-3,907,312	c 37	N75-33395 *	US-PATENT-3,943,763	c 04	N76-21194 *
US-PATENT-3,869,151	c 37	N75-19686 *	US-PATENT-3,907,646	c 35	N75-33368 *	US-PATENT-3,944,485	c 25	N81-19244 *
US-PATENT-3,869,180	c 37	N75-19685 *	US-PATENT-3,907,686	c 34	N75-33342 *	US-PATENT-3,945,801	c 45	N76-21742 *
US-PATENT-3,869,210	c 36	N75-19653 *	US-PATENT-3,908,118	c 38	N78-17395 *	US-PATENT-3,945,879	c 37	N76-21554 *
US-PATENT-3,869,212	c 35	N75-19613 *	US-PATENT-3,909,602	c 38	N78-17396 *	US-PATENT-3,947,281	c 27	N82-29455 *
US-PATENT-3,869,597	c 77	N75-20140 *	US-PATENT-3,910,035	c 20	N76-14190 *	US-PATENT-3,947,933	c 20	N76-21276 *
US-PATENT-3,869,615	c 35	N75-19616 *	US-PATENT-3,910,039	c 20	N76-14191 *	US-PATENT-3,948,102	c 33	N76-21390 *
US-PATENT-3,869,624	c 33	N75-18479 *	US-PATENT-3,910,257	c 52	N76-14757 *	US-PATENT-3,948,470	c 20	N76-21275 *
US-PATENT-3,869,659	c 33	N75-19522 *	US-PATENT-3,910,307	c 37	N76-14463 *	US-PATENT-3,949,206	c 32	N76-21366 *
US-PATENT-3,869,667	c 33	N75-19521 *	US-PATENT-3,910,533	c 18	N76-14186 *	US-PATENT-3,949,400	c 17	N76-21250 *
US-PATENT-3,869,676	c 33	N75-19520 *	US-PATENT-3,910,814	c 24	N76-14204 *	US-PATENT-3,949,404	c 32	N76-21365 *
US-PATENT-3,869,680	c 36	N75-19654 *	US-PATENT-3,911,260	c 35	N76-14431 *	US-PATENT-3,950,729	c 60	N76-21914 *
US-PATENT-3,869,779	c 26	N75-19408 *	US-PATENT-3,911,330	c 33	N76-14373 *	US-PATENT-3,951,129	c 44	N76-22657 *
US-PATENT-3,872,395	c 33	N75-19518 *	US-PATENT-3,912,540	c 44	N76-14600 *	US-PATENT-3,952,083	c 27	N76-22376 *
US-PATENT-3,874,240	c 35	N75-25122 *	US-PATENT-3,912,541	c 44	N76-14601 *	US-PATENT-3,952,590	c 09	N76-23273 *
US-PATENT-3,874,635	c 37	N75-25185 *	US-PATENT-3,912,999	c 44	N76-18643 *	US-PATENT-3,952,971	c 02	N76-22154 *
US-PATENT-3,874,677	c 37	N75-21631 *	US-PATENT-3,914,950	c 31	N76-14284 *	US-PATENT-3,952,976	c 37	N76-22540 *
US-PATENT-3,875,332	c 32	N75-21486 *	US-PATENT-3,914,969	c 37	N76-14461 *	US-PATENT-3,952,980	c 19	N76-22284 *
US-PATENT-3,875,394	c 33	N75-26243 *	US-PATENT-3,914,991	c 35	N76-14430 *	US-PATENT-3,952,998	c 20	N76-22296 *
US-PATENT-3,875,404	c 35	N75-23910 *	US-PATENT-3,914,997	c 35	N76-14429 *	US-PATENT-3,953,038	c 37	N76-22541 *
US-PATENT-3,875,435	c 20	N75-24837 *	US-PATENT-3,915,012	c 54	N76-14804 *	US-PATENT-3,953,343	c 24	N76-22309 *
US-PATENT-3,875,500	c 35	N75-21582 *	US-PATENT-3,915,148	c 44	N76-14602 *	US-PATENT-3,953,646	c 27	N76-22377 *
US-PATENT-3,875,584	c 32	N75-21485 *	US-PATENT-3,915,416	c 15	N76-14158 *	US-PATENT-3,953,674	c 17	N76-22245 *
US-PATENT-3,877,833	c 37	N75-25186 *	US-PATENT-3,915,482	c 37	N76-14460 *	US-PATENT-3,953,734	c 25	N76-22233 *
US-PATENT-3,878,464	c 32	N75-24981 *	US-PATENT-3,915,572	c 36	N76-14447 *	US-PATENT-3,953,792	c 35	N76-22509 *
US-PATENT-3,881,132	c 33	N77-21315 *	US-PATENT-3,916,060	c 27	N76-15310 *	US-PATENT-3,955,034	c 27	N76-23426 *
US-PATENT-3,882,417	c 36	N78-17366 *	US-PATENT-3,916,084	c 33	N76-14371 *	US-PATENT-3,955,941	c 44	N76-29700 *
US-PATENT-3,882,530	c 76	N75-25730 *	US-PATENT-3,916,187	c 35	N76-15431 *	US-PATENT-3,956,032	c 76	N76-25049 *
US-PATENT-3,882,634	c 51	N75-25503 *	US-PATENT-3,916,316	c 32	N76-14321 *	US-PATENT-3,956,050	c 37	N76-24575 *
US-PATENT-3,882,719	c 14	N75-24794 *	US-PATENT-3,916,380	c 60	N76-14818 *	US-PATENT-3,956,233	c 27	N76-24405 *
US-PATENT-3,882,732	c 12	N75-24774 *	US-PATENT-3,916,761	c 75	N76-14931 *	US-PATENT-3,956,833	c 09	N76-24280 *
US-PATENT-3,882,846	c 05	N75-24716 *	US-PATENT-3,919,014	c 24	N76-14203 *	US-PATENT-3,956,919	c 35	N76-24523 *
US-PATENT-3,883,095	c 07	N75-24736 *	US-PATENT-3,919,710	c 33	N76-14372 *	US-PATENT-3,956,932	c 35	N76-24524 *
US-PATENT-3,883,215	c 35	N75-25124 *	US-PATENT-3,920,339	c 27	N76-14264 *	US-PATENT-3,957,030	c 44	N76-23675 *
US-PATENT-3,883,436	c 74	N75-25706 *	US-PATENT-3,920,413	c 44	N76-14595 *	US-PATENT-3,957,037	c 35	N76-24525 *
US-PATENT-3,883,689	c 35	N75-25123 *	US-PATENT-3,920,416	c 44	N76-18642 *	US-PATENT-3,957,044	c 54	N76-24900 *
US-PATENT-3,883,785	c 09	N75-24758 *	US-PATENT-3,922,930	c 37	N76-15457 *	US-PATENT-3,957,104	c 37	N76-23570 *
US-PATENT-3,883,812	c 33	N75-25041 *	US-PATENT-3,923,166	c 37	N76-15460 *	US-PATENT-3,957,675	c 24	N76-24363 *
US-PATENT-3,883,817	c 33	N75-25040 *	US-PATENT-3,924,068	c 32	N76-16249 *	US-PATENT-3,958,188	c 36	N76-24553 *
US-PATENT-3,883,872	c 32	N75-24982 *	US-PATENT-3,924,137	c 72	N76-15860 *	US-PATENT-3,958,238	c 60	N76-23850 *
US-PATENT-3,884,432	c 05	N75-25914 *	US-PATENT-3,924,164	c 33	N76-15373 *	US-PATENT-3,958,553	c 44	N76-24696 *
US-PATENT-3,884,765	c 35	N75-27330 *	US-PATENT-3,924,176	c 35	N76-16390 *	US-PATENT-3,961,997	c 44	N76-28635 *
US-PATENT-3,887,233	c 05	N75-25915 *	US-PATENT-3,924,183	c 33	N76-16331 *	US-PATENT-3,964,306	c 34	N76-27517 *
US-PATENT-3,887,345	c 35	N75-26334 *	US-PATENT-3,924,200	c 35	N76-15436 *	US-PATENT-3,964,319	c 07	N76-27232 *
US-PATENT-3,887,365	c 37	N75-26371 *	US-PATENT-3,924,237	c 32	N76-15330 *	US-PATENT-3,964,813	c 37	N76-27567 *
US-PATENT-3,888,362	c 54	N75-27758 *	US-PATENT-3,924,239	c 35	N76-15435 *	US-PATENT-3,964,902	c 34	N76-27515 *
US-PATENT-3,888,410	c 34	N75-26282 *	US-PATENT-3,924,267	c 35	N76-16391 *	US-PATENT-3,964,928	c 44	N76-27664 *
US-PATENT-3,888,561	c 35	N75-27328 *	US-PATENT-3,924,444	c 35	N76-15432 *	US-PATENT-3,965,096	c 27	N76-32315 *
US-PATENT-3,888,705	c 25	N75-26043 *	US-PATENT-3,925,104	c 35	N76-15434 *	US-PATENT-3,965,354	c 33	N76-27473 *
US-PATENT-3,889,064	c 32	N75-26195 *	US-PATENT-3,925,312	c 23	N76-15268 *	US-PATENT-3,965,475	c 33	N76-27472 *
US-PATENT-3,889,122	c 37	N75-26372 *	US-PATENT-3,926,482	c 37	N76-15461 *	US-PATENT-3,966,499	c 44	N76-31666 *
US-PATENT-3,889,155	c 33	N75-26244 *	US-PATENT-3,926,567	c 27	N76-15311 *	US-PATENT-3,966,547	c 25	N76-27383 *
US-PATENT-3,889,182	c 33	N75-26245 *	US-PATENT-3,927,227	c 12	N76-15189 *	US-PATENT-3,967,091	c 37	N76-27568 *

US-PATENT-3,971,230	c 37	N76-29590 *	US-PATENT-4,006,999	c 24	N77-19170 *	US-PATENT-4,045,315	c 44	N77-32580 *
US-PATENT-3,971,256	c 91	N76-30131 *	US-PATENT-4,007,430	c 36	N77-19416 *	US-PATENT-4,045,359	c 25	N77-32255 *
US-PATENT-3,971,362	c 52	N76-29894 *	US-PATENT-4,007,434	c 32	N77-18307 *	US-PATENT-4,045,728	c 35	N77-32455 *
US-PATENT-3,971,363	c 52	N76-29895 *	US-PATENT-4,007,601	c 34	N77-19353 *	US-PATENT-4,045,792	c 60	N77-32731 *
US-PATENT-3,971,364	c 52	N76-29896 *	US-PATENT-4,007,623	c 35	N77-18417 *	US-PATENT-4,045,795	c 32	N77-32342 *
US-PATENT-3,971,535	c 05	N76-29217 *	US-PATENT-4,007,891	c 07	N77-18154 *	US-PATENT-4,046,012	c 35	N77-32456 *
US-PATENT-3,971,602	c 37	N76-29588 *	US-PATENT-4,008,348	c 34	N77-18382 *	US-PATENT-4,046,190	c 34	N77-32413 *
US-PATENT-3,971,697	c 25	N76-29379 *	US-PATENT-4,008,407	c 73	N77-18891 *	US-PATENT-4,046,262	c 54	N77-32721 *
US-PATENT-3,971,703	c 51	N76-29891 *	US-PATENT-4,010,455	c 37	N77-19458 *	US-PATENT-4,046,434	c 37	N77-32500 *
US-PATENT-3,971,847	c 44	N76-29704 *	US-PATENT-4,010,455	c 37	N78-31426 *	US-PATENT-4,046,435	c 37	N77-32501 *
US-PATENT-3,971,915	c 35	N76-29552 *	US-PATENT-4,011,719	c 20	N77-20162 *	US-PATENT-4,046,462	c 44	N77-32583 *
US-PATENT-3,971,930	c 74	N76-30053 *	US-PATENT-4,011,756	c 35	N77-20400 *	US-PATENT-4,046,529	c 54	N77-32722 *
US-PATENT-3,971,940	c 35	N76-29551 *	US-PATENT-4,011,854	c 35	N77-20401 *	US-PATENT-4,046,560	c 26	N77-32280 *
US-PATENT-3,972,008	c 36	N76-29575 *	US-PATENT-4,012,018	c 35	N77-20399 *	US-PATENT-4,046,617	c 76	N77-32919 *
US-PATENT-3,972,038	c 17	N76-29347 *	US-PATENT-4,012,123	c 74	N77-20882 *	US-PATENT-4,046,619	c 27	N77-32308 *
US-PATENT-3,972,651	c 44	N76-29701 *	US-PATENT-4,012,237	c 26	N77-20201 *	US-PATENT-4,047,840	c 37	N78-10468 *
US-PATENT-3,972,727	c 44	N76-29699 *	US-PATENT-4,012,696	c 32	N77-20289 *	US-PATENT-4,051,558	c 52	N78-10686 *
US-PATENT-3,976,997	c 62	N76-31946 *	US-PATENT-4,014,745	c 51	N77-22794 *	US-PATENT-4,051,834	c 44	N78-10554 *
US-PATENT-3,977,147	c 39	N76-31562 *	US-PATENT-4,014,798	c 25	N81-17187 *	US-PATENT-4,051,877	c 35	N78-10428 *
US-PATENT-3,977,197	c 44	N76-31667 *	US-PATENT-4,017,959	c 37	N77-23482 *	US-PATENT-4,052,144	c 25	N78-10224 *
US-PATENT-3,977,231	c 35	N76-31489 *	US-PATENT-4,018,080	c 35	N77-22450 *	US-PATENT-4,052,181	c 71	N78-10837 *
US-PATENT-3,977,771	c 74	N76-31998 *	US-PATENT-4,018,085	c 35	N77-22449 *	US-PATENT-4,052,302	c 25	N78-10225 *
US-PATENT-3,977,787	c 35	N76-31490 *	US-PATENT-4,018,092	c 37	N77-22482 *	US-PATENT-4,052,523	c 24	N78-10214 *
US-PATENT-3,977,831	c 45	N76-31714 *	US-PATENT-4,018,409	c 37	N77-23483 *	US-PATENT-4,052,614	c 35	N78-10429 *
US-PATENT-3,978,187	c 37	N76-31524 *	US-PATENT-4,018,423	c 54	N77-21844 *	US-PATENT-4,052,648	c 33	N78-10376 *
US-PATENT-3,978,287	c 32	N76-31372 *	US-PATENT-4,018,532	c 74	N77-22951 *	US-PATENT-4,052,659	c 43	N78-10377 *
US-PATENT-3,978,360	c 33	N76-31409 *	US-PATENT-4,018,533	c 74	N77-22950 *	US-PATENT-4,052,666	c 33	N78-10529 *
US-PATENT-3,978,364	c 31	N76-31365 *	US-PATENT-4,018,649	c 51	N77-25769 *	US-PATENT-4,052,705	c 60	N78-10709 *
US-PATENT-3,978,410	c 03	N76-32140 *	US-PATENT-4,018,971	c 44	N77-22606 *	US-PATENT-4,053,229	c 74	N78-13874 *
US-PATENT-3,978,417	c 36	N76-31512 *	US-PATENT-4,019,179	c 32	N77-21267 *	US-PATENT-4,053,231	c 35	N78-18391 *
US-PATENT-3,978,490	c 33	N76-32457 *	US-PATENT-4,019,868	c 44	N77-22607 *	US-PATENT-4,053,918	c 44	N78-13526 *
US-PATENT-3,982,910	c 44	N77-10636 *	US-PATENT-4,020,632	c 07	N77-23106 *	US-PATENT-4,055,004	c 09	N78-18083 *
US-PATENT-3,983,695	c 20	N77-10148 *	US-PATENT-4,023,266	c 33	N77-26385 *	US-PATENT-4,055,041	c 07	N78-18066 *
US-PATENT-3,983,714	c 31	N77-10229 *	US-PATENT-4,025,327	c 35	N77-24455 *	US-PATENT-4,055,072	c 35	N78-19465 *
US-PATENT-3,983,749	c 09	N77-10071 *	US-PATENT-4,025,783	c 74	N77-26942 *	US-PATENT-4,055,089	c 35	N78-18390 *
US-PATENT-3,983,753	c 52	N77-10780 *	US-PATENT-4,025,866	c 33	N77-24375 *	US-PATENT-4,055,147	c 35	N78-19466 *
US-PATENT-3,983,780	c 28	N77-10213 *	US-PATENT-4,025,875	c 36	N77-25499 *	US-PATENT-4,055,416	c 26	N78-18182 *
US-PATENT-3,983,933	c 34	N77-10463 *	US-PATENT-4,025,876	c 71	N77-26919 *	US-PATENT-4,055,447	c 26	N78-18183 *
US-PATENT-3,984,070	c 02	N77-10001 *	US-PATENT-4,025,891	c 35	N77-24454 *	US-PATENT-4,055,686	c 37	N78-13436 *
US-PATENT-3,984,072	c 15	N77-10113 *	US-PATENT-4,025,950	c 32	N77-24328 *	US-PATENT-4,055,705	c 34	N78-18355 *
US-PATENT-3,984,256	c 44	N77-10635 *	US-PATENT-4,025,964	c 52	N77-25772 *	US-PATENT-4,055,707	c 44	N78-19599 *
US-PATENT-3,984,634	c 32	N77-10392 *	US-PATENT-4,026,527	c 34	N77-24423 *	US-PATENT-4,055,764	c 35	N78-13400 *
US-PATENT-3,984,671	c 43	N77-10584 *	US-PATENT-4,026,655	c 36	N77-25501 *	US-PATENT-4,055,777	c 33	N78-18308 *
US-PATENT-3,984,681	c 35	N77-10492 *	US-PATENT-4,027,212	c 33	N77-26386 *	US-PATENT-4,055,810	c 36	N78-18410 *
US-PATENT-3,984,685	c 47	N77-10753 *	US-PATENT-4,027,265	c 32	N77-24331 *	US-PATENT-4,055,847	c 33	N78-13320 *
US-PATENT-3,984,686	c 35	N77-10493 *	US-PATENT-4,027,273	c 36	N77-25502 *	US-PATENT-4,061,029	c 35	N78-14364 *
US-PATENT-3,984,730	c 33	N77-10429 *	US-PATENT-4,027,494	c 35	N78-12390 *	US-PATENT-4,061,041	c 71	N78-14867 *
US-PATENT-3,984,799	c 33	N77-10428 *	US-PATENT-4,027,524	c 09	N77-27131 *	US-PATENT-4,061,146	c 52	N78-14773 *
US-PATENT-3,985,454	c 74	N77-10899 *	US-PATENT-4,028,939	c 34	N77-27345 *	US-PATENT-4,061,190	c 43	N78-14452 *
US-PATENT-3,987,630	c 37	N77-12402 *	US-PATENT-4,029,470	c 51	N77-27677 *	US-PATENT-4,061,427	c 36	N78-14380 *
US-PATENT-3,988,561	c 37	N77-11397 *	US-PATENT-4,029,500	c 24	N77-27187 *	US-PATENT-4,061,561	c 25	N78-14104 *
US-PATENT-3,988,677	c 32	N77-12240 *	US-PATENT-4,029,838	c 24	N77-27188 *	US-PATENT-4,061,570	c 54	N78-14784 *
US-PATENT-3,988,716	c 60	N77-12721 *	US-PATENT-4,030,047	c 35	N77-27366 *	US-PATENT-4,061,577	c 74	N78-14889 *
US-PATENT-3,988,729	c 32	N77-12239 *	US-PATENT-4,030,348	c 39	N78-10493 *	US-PATENT-4,061,579	c 24	N78-14096 *
US-PATENT-3,988,933	c 35	N77-19385 *	US-PATENT-4,031,389	c 36	N77-26477 *	US-PATENT-4,061,812	c 24	N78-15180 *
US-PATENT-3,989,136	c 37	N77-19457 *	US-PATENT-4,032,089	c 24	N77-28225 *	US-PATENT-4,061,834	c 27	N78-14164 *
US-PATENT-3,989,206	c 09	N77-19076 *	US-PATENT-4,032,089	c 27	N81-14077 *	US-PATENT-4,061,856	c 27	N78-15276 *
US-PATENT-3,989,541	c 44	N77-19571 *	US-PATENT-4,033,119	c 07	N77-28118 *	US-PATENT-4,061,955	c 44	N78-14625 *
US-PATENT-3,989,602	c 24	N77-19171 *	US-PATENT-4,033,133	c 28	N80-10374 *	US-PATENT-4,061,974	c 32	N78-15323 *
US-PATENT-3,990,049	c 60	N77-19760 *	US-PATENT-4,033,182	c 39	N77-28511 *	US-PATENT-4,062,227	c 39	N78-15512 *
US-PATENT-3,990,860	c 27	N77-13217 *	US-PATENT-4,033,286	c 25	N79-28253 *	US-PATENT-4,062,245	c 37	N78-16369 *
US-PATENT-3,990,987	c 37	N77-13418 *	US-PATENT-4,033,316	c 33	N77-28385 *	US-PATENT-4,062,347	c 44	N78-15560 *
US-PATENT-3,994,128	c 07	N77-14025 *	US-PATENT-4,033,334	c 52	N77-28717 *	US-PATENT-4,062,650	c 25	N78-15210 *
US-PATENT-3,995,324	c 52	N77-14735 *	US-PATENT-4,033,349	c 52	N77-28716 *	US-PATENT-4,062,998	c 74	N78-15879 *
US-PATENT-3,995,476	c 35	N77-14407 *	US-PATENT-4,033,479	c 37	N77-28487 *	US-PATENT-4,063,088	c 74	N78-15880 *
US-PATENT-3,995,522	c 37	N77-14478 *	US-PATENT-4,033,503	c 26	N77-29260 *	US-PATENT-4,063,092	c 35	N78-15461 *
US-PATENT-3,995,621	c 52	N77-14736 *	US-PATENT-4,033,504	c 26	N77-28265 *	US-PATENT-4,063,282	c 39	N78-16387 *
US-PATENT-3,995,644	c 52	N77-14738 *	US-PATENT-4,033,705	c 07	N77-27116 *	US-PATENT-4,063,814	c 74	N78-17866 *
US-PATENT-3,995,789	c 37	N77-14479 *	US-PATENT-4,033,882	c 32	N77-28346 *	US-PATENT-4,063,981	c 24	N78-17149 *
US-PATENT-3,995,877	c 37	N77-14477 *	US-PATENT-4,035,037	c 37	N77-28486 *	US-PATENT-4,064,566	c 27	N78-17215 *
US-PATENT-3,995,960	c 35	N77-14411 *	US-PATENT-4,035,062	c 74	N77-28932 *	US-PATENT-4,064,642	c 54	N78-17675 *
US-PATENT-3,996,064	c 44	N77-14581 *	US-PATENT-4,035,065	c 74	N77-28933 *	US-PATENT-4,064,692	c 37	N78-17384 *
US-PATENT-3,996,067	c 44	N77-14580 *	US-PATENT-4,038,705	c 54	N77-30749 *	US-PATENT-4,065,053	c 44	N78-17460 *
US-PATENT-3,996,070	c 35	N77-14409 *	US-PATENT-4,039,489	c 27	N77-31308 *	US-PATENT-4,065,202	c 35	N78-17357 *
US-PATENT-3,996,455	c 60	N77-14751 *	US-PATENT-4,039,946	c 35	N77-30436 *	US-PATENT-4,065,340	c 24	N78-17150 *
US-PATENT-3,996,462	c 33	N77-14335 *	US-PATENT-4,039,000	c 34	N77-30399 *	US-PATENT-4,065,345	c 27	N78-17205 *
US-PATENT-3,996,464	c 35	N77-14406 *	US-PATENT-4,039,347	c 27	N77-30237 *	US-PATENT-4,066,039	c 37	N78-17383 *
US-PATENT-3,996,468	c 35	N77-14408 *	US-PATENT-4,039,754	c 32	N77-30309 *	US-PATENT-4,067,015	c 17	N78-17140 *
US-PATENT-3,996,471	c 52	N77-14737 *	US-PATENT-4,039,925	c 33	N77-30365 *	US-PATENT-4,067,043	c 74	N78-17865 *
US-PATENT-3,996,506	c 33	N77-14333 *	US-PATENT-4,040,041	c 33	N77-31404 *	US-PATENT-4,067,653	c 74	N78-17867 *
US-PATENT-3,996,532	c 32	N77-14292 *	US-PATENT-4,040,750	c 35	N77-31465 *	US-PATENT-4,067,742	c 27	N78-17206 *
US-PATENT-3,997,848	c 33	N77-14334 *	US-PATENT-4,040,867	c 44	N77-31601 *	US-PATENT-4,068,469	c 07	N78-17055 *
US-PATENT-3,999,886	c 05	N77-17029 *	US-PATENT-4,040,940	c 37	N80-14397 *	US-PATENT-4,068,470	c 07	N78-17056 *
US-PATENT-4,049,930	c 33	N78-10375 *	US-PATENT-4,041,233	c 27	N77-30236 *	US-PATENT-4,068,495	c 31	N78-17237 *
US-PATENT-4, 356,157	c 25	N83-33977 *	US-PATENT-4,041,391	c 32	N77-30308 *	US-PATENT-4,068,763	c 54	N78-17676 *
US-PATENT-4, 359,503	c 24	N83-33950 *	US-PATENT-4,041,697	c 37	N78-10467 *	US-PATENT-4,069,028	c 34	N78-17335 *
US-PATENT-4,000,682	c 20	N77-17143 *	US-PATENT-4,041,910	c 37	N77-31497 *	US-PATENT-4,069,212	c 27	N78-17213 *
US-PATENT-4,000,929	c 37	N77-17464 *	US-PATENT-4,042,926	c 32	N77-31350 *	US-PATENT-4,069,478	c 60	N78-17691 *
US-PATENT-4,001,552	c 38	N77-17495 *	US-PATENT-4,043,668	c 35	N84-33766 *	US-PATENT-4,069,661	c 07	N78-18067 *
US-PATENT-4,001,602	c 33	N77-17354 *	US-PATENT-4,043,674	c 36	N77-32478 *	US-PATENT-4,070,574	c 74	N78-18905 *
US-PATENT-4,003,004	c 33	N77-17351 *	US-PATENT-4,044,753	c 44	N77-32582 *	US-PATENT-4,072,532	c 27	N78-19302 *
US-PATENT-4,003,084	c 35	N77-17426 *	US-PATENT-4,044,821	c 44	N77-32581 *	US-PATENT-4,075,057	c 73	N78-19920 *
US-PATENT-4,003,257	c 23	N77-17161 *	US-PATENT-4,045,063	c 37	N77-32499 *	US-PATENT-4,077,231	c 31	N78-25256 *
US-PATENT-4,004,292	c 74	N77-18893 *	US-PATENT-4,045,149	c 07	N77-32148 *	US-PATENT-4,077,678	c 44	N78-24608 *
US-PATENT-4,005,574	c 07	N77-17059 *	US-PATENT-4,045,247	c 35	N77-32454 *	US-PATENT-4,077,788	c 28	N78-24365 *
US-PATENT-4,006,631	c 04	N77-19056 *	US-PATENT-4,045,255	c 26	N77-32279 *	US-PATENT-4,077,788	c 28	N81-14103 *

US-PATENT-4,077,813	c 26	N78-24333 *	US-PATENT-4,104,873	c 37	N79-11403 *	US-PATENT-4,137,010	c 05	N79-17847 *
US-PATENT-4,077,818	c 44	N78-24609 *	US-PATENT-4,105,261	c 37	N79-11404 *	US-PATENT-4,137,365	c 27	N79-18052 *
US-PATENT-4,077,921	c 24	N78-24290 *	US-PATENT-4,105,517	c 44	N79-11470 *	US-PATENT-4,139,291	c 74	N79-20856 *
US-PATENT-4,078,110	c 34	N78-25350 *	US-PATENT-4,105,966	c 33	N79-11315 *	US-PATENT-4,139,806	c 71	N79-20827 *
US-PATENT-4,078,175	c 76	N78-24950 *	US-PATENT-4,106,218	c 74	N79-13855 *	US-PATENT-4,139,839	c 60	N79-20751 *
US-PATENT-4,078,290	c 37	N78-24544 *	US-PATENT-4,106,587	c 71	N79-14871 *	US-PATENT-4,139,862	c 32	N79-20297 *
US-PATENT-4,078,378	c 37	N78-24545 *	US-PATENT-4,106,687	c 37	N79-13364 *	US-PATENT-4,140,972	c 32	N79-20296 *
US-PATENT-4,079,268	c 32	N78-24391 *	US-PATENT-4,107,363	c 33	N79-12331 *	US-PATENT-4,141,219	c 34	N79-20335 *
US-PATENT-4,080,901	c 20	N78-24275 *	US-PATENT-4,107,627	c 72	N79-13826 *	US-PATENT-4,141,224	c 34	N79-20336 *
US-PATENT-4,081,250	c 44	N78-31527 *	US-PATENT-4,107,919	c 34	N79-13288 *	US-PATENT-4,141,259	c 37	N79-20377 *
US-PATENT-4,082,001	c 35	N78-24515 *	US-PATENT-4,108,241	c 34	N79-13289 *	US-PATENT-4,142,101	c 74	N79-20857 *
US-PATENT-4,082,569	c 44	N78-25527 *	US-PATENT-4,109,213	c 33	N79-22373 *	US-PATENT-4,142,119	c 33	N79-20314 *
US-PATENT-4,083,097	c 44	N78-25528 *	US-PATENT-4,109,644	c 52	N79-18580 *	US-PATENT-4,143,314	c 20	N79-20179 *
US-PATENT-4,083,181	c 07	N78-25089 *	US-PATENT-4,110,683	c 33	N79-18193 *	US-PATENT-4,145,058	c 37	N79-22475 *
US-PATENT-4,083,380	c 37	N78-25426 *	US-PATENT-4,110,703	c 36	N79-18307 *	US-PATENT-4,145,255	c 25	N79-22235 *
US-PATENT-4,083,520	c 15	N78-25119 *	US-PATENT-4,111,041	c 35	N79-14345 *	US-PATENT-4,145,524	c 27	N79-22300 *
US-PATENT-4,083,765	c 35	N78-25391 *	US-PATENT-4,111,058	c 35	N79-14347 *	US-PATENT-4,145,933	c 39	N79-22537 *
US-PATENT-4,084,124	c 44	N78-25531 *	US-PATENT-4,111,068	c 37	N79-14382 *	US-PATENT-4,146,180	c 37	N79-22474 *
US-PATENT-4,084,132	c 33	N78-25319 *	US-PATENT-4,111,184	c 44	N79-14526 *	US-PATENT-4,146,367	c 25	N81-33246 *
US-PATENT-4,084,612	c 34	N78-25351 *	US-PATENT-4,111,718	c 35	N79-14346 *	US-PATENT-4,146,409	c 26	N79-22271 *
US-PATENT-4,084,825	c 07	N78-25090 *	US-PATENT-4,111,729	c 28	N79-14228 *	US-PATENT-4,148,031	c 32	N79-24210 *
US-PATENT-4,084,985	c 44	N78-25529 *	US-PATENT-4,111,775	c 76	N79-14906 *	US-PATENT-4,148,295	c 44	N79-23481 *
US-PATENT-4,085,004	c 73	N78-28913 *	US-PATENT-4,111,851	c 24	N79-14156 *	US-PATENT-4,148,375	c 46	N79-22679 *
US-PATENT-4,085,241	c 44	N78-25530 *	US-PATENT-4,112,357	c 33	N79-14305 *	US-PATENT-4,148,452	c 08	N79-23097 *
US-PATENT-4,085,332	c 25	N78-25148 *	US-PATENT-4,112,497	c 32	N79-14267 *	US-PATENT-4,148,962	c 24	N79-24062 *
US-PATENT-4,087,902	c 33	N78-27326 *	US-PATENT-4,112,875	c 44	N78-33526 *	US-PATENT-4,149,034	c 71	N79-23753 *
US-PATENT-4,087,962	c 34	N78-27357 *	US-PATENT-4,116,131	c 20	N78-32179 *	US-PATENT-4,149,233	c 33	N79-24257 *
US-PATENT-4,087,975	c 44	N78-32542 *	US-PATENT-4,117,669	c 07	N79-10057 *	US-PATENT-4,149,278	c 54	N79-24652 *
US-PATENT-4,088,018	c 37	N78-27424 *	US-PATENT-4,117,731	c 35	N79-10390 *	US-PATENT-4,149,423	c 32	N79-24203 *
US-PATENT-4,088,094	c 51	N78-27733 *	US-PATENT-4,117,749	c 37	N79-10419 *	US-PATENT-4,149,521	c 44	N79-24433 *
US-PATENT-4,088,270	c 07	N78-27121 *	US-PATENT-4,117,881	c 51	N79-10694 *	US-PATENT-4,149,665	c 44	N79-24431 *
US-PATENT-4,088,291	c 37	N78-27425 *	US-PATENT-4,118,014	c 37	N79-10420 *	US-PATENT-4,149,817	c 44	N79-24432 *
US-PATENT-4,088,312	c 37	N78-27423 *	US-PATENT-4,118,315	c 61	N79-10693 *	US-PATENT-4,149,938	c 25	N79-24073 *
US-PATENT-4,088,408	c 74	N78-27904 *	US-PATENT-4,118,427	c 27	N80-32514 *	US-PATENT-4,150,425	c 33	N79-24254 *
US-PATENT-4,088,532	c 25	N78-27226 *	US-PATENT-4,118,620	c 37	N79-10421 *	US-PATENT-4,151,086	c 34	N79-24285 *
US-PATENT-4,088,806	c 24	N78-27180 *	US-PATENT-4,118,665	c 33	N79-10338 *	US-PATENT-4,151,456	c 33	N79-23345 *
US-PATENT-4,088,926	c 75	N78-27913 *	US-PATENT-4,118,666	c 32	N79-10262 *	US-PATENT-4,151,612	c 54	N79-24651 *
US-PATENT-4,088,951	c 35	N78-28411 *	US-PATENT-4,118,671	c 33	N79-10339 *	US-PATENT-4,151,800	c 24	N79-25142 *
US-PATENT-4,088,954	c 35	N78-32397 *	US-PATENT-4,118,701	c 32	N79-10264 *	US-PATENT-4,152,194	c 76	N79-23798 *
US-PATENT-4,088,965	c 36	N78-27402 *	US-PATENT-4,119,581	c 27	N81-14076 *	US-PATENT-4,153,134	c 46	N79-23555 *
US-PATENT-4,088,999	c 44	N78-28594 *	US-PATENT-4,119,926	c 33	N79-11313 *	US-PATENT-4,153,476	c 44	N79-25482 *
US-PATENT-4,089,004	c 32	N80-29539 *	US-PATENT-4,119,964	c 32	N79-11265 *	US-PATENT-4,153,818	c 32	N79-23310 *
US-PATENT-4,089,209	c 35	N78-27384 *	US-PATENT-4,119,972	c 32	N79-11264 *	US-PATENT-4,154,084	c 43	N79-25443 *
US-PATENT-4,089,705	c 44	N78-27515 *	US-PATENT-4,119,996	c 33	N79-12321 *	US-PATENT-4,154,228	c 52	N79-27836 *
US-PATENT-4,090,213	c 44	N80-29835 *	US-PATENT-4,121,965	c 76	N79-11920 *	US-PATENT-4,154,230	c 52	N79-26771 *
US-PATENT-4,091,166	c 27	N78-31233 *	US-PATENT-4,121,995	c 25	N79-11152 *	US-PATENT-4,154,256	c 05	N79-24976 *
US-PATENT-4,091,329	c 33	N78-32339 *	US-PATENT-4,122,214	c 44	N79-11472 *	US-PATENT-4,154,501	c 33	N81-29342 *
US-PATENT-4,091,464	c 54	N78-31735 *	US-PATENT-4,122,334	c 74	N79-12890 *	US-PATENT-4,154,912	c 44	N79-25481 *
US-PATENT-4,091,464	c 54	N79-24651 *	US-PATENT-4,122,383	c 44	N79-12541 *	US-PATENT-4,155,475	c 24	N79-25143 *
US-PATENT-4,091,465	c 54	N78-31736 *	US-PATENT-4,122,454	c 32	N79-13214 *	US-PATENT-4,156,309	c 44	N79-26475 *
US-PATENT-4,091,613	c 44	N78-32539 *	US-PATENT-4,122,518	c 52	N79-12694 *	US-PATENT-4,156,548	c 35	N79-26372 *
US-PATENT-4,091,613	c 44	N78-32539 *	US-PATENT-4,122,712	c 34	N79-12359 *	US-PATENT-4,156,752	c 15	N79-26100 *
US-PATENT-4,091,665	c 09	N78-31129 *	US-PATENT-4,122,725	c 38	N79-14398 *	US-PATENT-4,156,971	c 43	N79-26439 *
US-PATENT-4,091,798	c 44	N78-31526 *	US-PATENT-4,122,816	c 37	N79-11405 *	US-PATENT-4,157,655	c 43	N80-14423 *
US-PATENT-4,091,800	c 44	N78-31525 *	US-PATENT-4,122,833	c 44	N79-11471 *	US-PATENT-4,157,718	c 52	N80-14684 *
US-PATENT-4,092,188	c 28	N78-31255 *	US-PATENT-4,122,991	c 18	N79-11108 *	US-PATENT-4,158,583	c 28	N79-28342 *
US-PATENT-4,092,274	c 27	N78-31232 *	US-PATENT-4,122,991	c 18	N79-11108 *	US-PATENT-4,158,583	c 28	N79-28342 *
US-PATENT-4,092,466	c 27	N78-32256 *	US-PATENT-4,123,355	c 45	N79-12584 *	US-PATENT-4,158,742	c 12	N79-26075 *
US-PATENT-4,092,466	c 27	N80-10358 *	US-PATENT-4,124,180	c 05	N79-12061 *	US-PATENT-4,158,775	c 72	N80-14877 *
US-PATENT-4,092,606	c 33	N78-32338 *	US-PATENT-4,124,330	c 07	N79-14095 *	US-PATENT-4,158,895	c 52	N79-26772 *
US-PATENT-4,092,617	c 33	N78-32340 *	US-PATENT-4,124,732	c 27	N79-12221 *	US-PATENT-4,159,262	c 27	N79-28307 *
US-PATENT-4,092,633	c 54	N78-32720 *	US-PATENT-4,128,814	c 36	N79-14362 *	US-PATENT-4,159,366	c 44	N79-26474 *
US-PATENT-4,092,648	c 32	N78-31321 *	US-PATENT-4,129,357	c 74	N79-14891 *	US-PATENT-4,159,634	c 37	N79-28550 *
US-PATENT-4,092,712	c 33	N78-32341 *	US-PATENT-4,130,032	c 37	N79-14383 *	US-PATENT-4,160,254	c 33	N79-28416 *
US-PATENT-4,092,874	c 37	N78-31426 *	US-PATENT-4,130,112	c 52	N79-14751 *	US-PATENT-4,160,508	c 37	N79-28551 *
US-PATENT-4,093,156	c 05	N78-32086 *	US-PATENT-4,130,471	c 25	N79-14169 *	US-PATENT-4,160,601	c 35	N79-28527 *
US-PATENT-4,093,354	c 73	N78-32848 *	US-PATENT-4,130,490	c 33	N79-15245 *	US-PATENT-4,161,661	c 33	N79-28415 *
US-PATENT-4,093,382	c 38	N78-32447 *	US-PATENT-4,130,795	c 35	N79-14349 *	US-PATENT-4,161,731	c 31	N79-28370 *
US-PATENT-4,093,771	c 27	N78-32260 *	US-PATENT-4,131,336	c 44	N79-14529 *	US-PATENT-4,161,747	c 37	N79-28549 *
US-PATENT-4,093,917	c 35	N78-32396 *	US-PATENT-4,131,459	c 27	N79-14213 *	US-PATENT-4,162,169	c 24	N79-31347 *
US-PATENT-4,094,073	c 35	N78-32395 *	US-PATENT-4,131,486	c 44	N79-14528 *	US-PATENT-4,162,701	c 34	N79-31523 *
US-PATENT-4,094,758	c 26	N78-32229 *	US-PATENT-4,132,068	c 07	N79-14097 *	US-PATENT-4,162,928	c 44	N79-31753 *
US-PATENT-4,094,775	c 52	N80-14687 *	US-PATENT-4,132,069	c 07	N79-14096 *	US-PATENT-4,163,678	c 44	N79-31752 *
US-PATENT-4,094,862	c 27	N78-32261 *	US-PATENT-4,132,130	c 44	N79-14527 *	US-PATENT-4,164,079	c 09	N79-31228 *
US-PATENT-4,094,943	c 27	N78-32262 *	US-PATENT-4,132,375	c 08	N79-14108 *	US-PATENT-4,164,718	c 32	N80-14281 *
US-PATENT-4,095,593	c 54	N78-32721 *	US-PATENT-4,132,594	c 52	N79-14749 *	US-PATENT-4,165,460	c 43	N79-31706 *
US-PATENT-4,096,315	c 74	N78-32854 *	US-PATENT-4,132,599	c 52	N79-14750 *	US-PATENT-4,166,170	c 27	N79-33316 *
US-PATENT-4,097,194	c 07	N78-33101 *	US-PATENT-4,132,829	c 27	N79-14214 *	US-PATENT-4,166,170	c 27	N81-14078 *
US-PATENT-4,098,142	c 37	N79-10422 *	US-PATENT-4,132,940	c 35	N79-14348 *	US-PATENT-4,166,959	c 74	N79-34011 *
US-PATENT-4,099,799	c 37	N79-10418 *	US-PATENT-4,132,989	c 32	N79-14268 *	US-PATENT-4,167,111	c 46	N80-10709 *
US-PATENT-4,100,331	c 44	N79-10513 *	US-PATENT-4,133,697	c 44	N79-17314 *	US-PATENT-4,168,287	c 27	N80-10358 *
US-PATENT-4,100,487	c 33	N79-10337 *	US-PATENT-4,133,697	c 44	N80-14474 *	US-PATENT-4,168,483	c 39	N80-10507 *
US-PATENT-4,100,531	c 32	N79-10263 *	US-PATENT-4,133,941	c 44	N79-17313 *	US-PATENT-4,168,706	c 54	N80-10799 *
US-PATENT-4,101,195	c 89	N79-10969 *	US-PATENT-4,133,941	c 25	N82-21268 *	US-PATENT-4,168,718	c 20	N80-10278 *
US-PATENT-4,101,644	c 25	N79-10162 *	US-PATENT-4,134,447	c 31	N79-17029 *	US-PATENT-4,168,939	c 05	N80-14107 *
US-PATENT-4,101,780	c 35	N79-10389 *	US-PATENT-4,134,683	c 43	N79-17288 *	US-PATENT-4,169,129	c 37	N80-10494 *
US-PATENT-4,101,891	c 35	N79-10391 *	US-PATENT-4,134,744	c 35	N79-17192 *	US-PATENT-4,170,776	c 46	N80-14603 *
US-PATENT-4,101,961	c 52	N79-10724 *	US-PATENT-4,134,786	c 85	N79-17747 *	US-PATENT-4,170,987	c 52	N81-27783 *
US-PATENT-4,102,580	c 74	N79-11865 *	US-PATENT-4,135,019	c 24	N79-16915 *	US-PATENT-4,171,615	c 20	N80-14188 *
US-PATENT-4,103,550	c 31	N79-11246 *	US-PATENT-4,135,127	c 33	N79-17133 *	US-PATENT-4,171,645	c 35	N80-14371 *
US-PATENT-4,103,619	c 28	N79-11231 *	US-PATENT-4,135,290	c 44	N79-18444 *	US-PATENT-4,172,228	c 33	N80-14332 *
US-PATENT-4,103,712	c 37	N79-11402 *	US-PATENT-4,135,367	c 44	N79-18443 *	US-PATENT-4,172,786	c 45	N80-14579 *
US-PATENT-4,104,018	c 25	N79-11151 *	US-PATENT-4,135,817	c 35	N79-18296 *	US-PATENT-4,172,883	c 26	N80-14229 *
US-PATENT-4,104,084	c 44	N79-11467 *	US-PATENT-4,135,851	c 37	N79-18318 *	US-PATENT-4,173,001	c 36	N80-14384 *
US-PATENT-4,104,091	c 44	N79-11468 *	US-PATENT-4,135,851	c 37	N80-26658 *	US-PATENT-4,173,324	c 37	N80-14398 *
US-PATENT-4,104,134	c 44	N79-11469 *	US-PATENT-4,135,851	c 37	N82-19540 *	US-PATENT-4,173,397	c 44	N80-14473 *
US-PATENT-4,104,134	c 44	N80-16452 *	US-PATENT-4,136,211	c 24	N79-17916 *	US-PATENT-4,173,820	c 44	N80-14474 *

US-PATENT-4,175,249	c 44	N80-14472 *	US-PATENT-4,213,051	c 35	N80-28686 *	US-PATENT-4,255,929	c 37	N81-25370 *
US-PATENT-4,176,007	c 51	N80-16714 *	US-PATENT-4,213,064	c 60	N81-15706 *	US-PATENT-4,256,093	c 52	N81-25660 *
US-PATENT-4,176,360	c 18	N80-14183 *	US-PATENT-4,213,131	c 32	N80-28578 *	US-PATENT-4,258,366	c 32	N81-25278 *
US-PATENT-4,176,662	c 52	N80-16725 *	US-PATENT-4,213,684	c 74	N81-17886 *	US-PATENT-4,259,821	c 31	N81-25258 *
US-PATENT-4,176,950	c 36	N80-16321 *	US-PATENT-4,214,226	c 31	N80-32584 *	US-PATENT-4,259,825	c 31	N81-25259 *
US-PATENT-4,177,325	c 44	N80-16452 *	US-PATENT-4,214,703	c 07	N80-32392 *	US-PATENT-4,260,166	c 37	N81-24442 *
US-PATENT-4,177,333	c 25	N80-16116 *	US-PATENT-4,214,902	c 26	N80-32484 *	US-PATENT-4,260,187	c 37	N81-27519 *
US-PATENT-4,178,100	c 35	N80-18359 *	US-PATENT-4,214,905	c 24	N80-33482 *	US-PATENT-4,261,349	c 52	N81-25662 *
US-PATENT-4,180,648	c 27	N80-16158 *	US-PATENT-4,215,273	c 74	N80-33210 *	US-PATENT-4,261,537	c 08	N81-24106 *
US-PATENT-4,181,589	c 51	N80-16715 *	US-PATENT-4,215,327	c 32	N80-32605 *	US-PATENT-4,262,064	c 44	N81-24521 *
US-PATENT-4,182,158	c 35	N80-18358 *	US-PATENT-4,215,345	c 04	N80-32359 *	US-PATENT-4,262,067	c 27	N81-24257 *
US-PATENT-4,183,217	c 20	N80-18097 *	US-PATENT-4,215,548	c 37	N80-31790 *	US-PATENT-4,262,080	c 27	N81-25209 *
US-PATENT-4,184,072	c 44	N80-18552 *	US-PATENT-4,215,590	c 37	N80-32717 *	US-PATENT-4,262,195	c 44	N81-24520 *
US-PATENT-4,184,111	c 44	N80-18551 *	US-PATENT-4,215,592	c 37	N80-32716 *	US-PATENT-4,262,198	c 74	N83-19597 *
US-PATENT-4,184,149	c 06	N80-18036 *	US-PATENT-4,216,186	c 76	N80-32244 *	US-PATENT-4,262,206	c 74	N81-24900 *
US-PATENT-4,184,155	c 43	N80-18498 *	US-PATENT-4,216,542	c 33	N81-15192 *	US-PATENT-4,262,258	c 33	N81-27396 *
US-PATENT-4,184,327	c 07	N80-18039 *	US-PATENT-4,217,165	c 76	N80-32245 *	US-PATENT-4,262,259	c 33	N81-24338 *
US-PATENT-4,184,368	c 48	N80-18667 *	US-PATENT-4,217,633	c 44	N81-12542 *	US-PATENT-4,263,112	c 28	N81-24280 *
US-PATENT-4,184,472	c 76	N80-18951 *	US-PATENT-4,218,280	c 27	N80-32516 *	US-PATENT-4,264,310	c 54	N81-27806 *
US-PATENT-4,184,491	c 52	N80-18690 *	US-PATENT-4,218,633	c 72	N80-33186 *	US-PATENT-4,264,728	c 51	N81-28698 *
US-PATENT-4,184,609	c 37	N80-18393 *	US-PATENT-4,218,650	c 33	N80-32650 *	US-PATENT-4,264,802	c 35	N81-26431 *
US-PATENT-4,184,903	c 44	N80-18550 *	US-PATENT-4,218,682	c 32	N80-32604 *	US-PATENT-4,264,908	c 33	N81-26358 *
US-PATENT-4,185,164	c 33	N80-18286 *	US-PATENT-4,218,685	c 32	N81-14187 *	US-PATENT-4,264,940	c 33	N81-27397 *
US-PATENT-4,185,493	c 35	N80-18357 *	US-PATENT-4,218,892	c 35	N81-14287 *	US-PATENT-4,264,984	c 60	N81-27814 *
US-PATENT-4,186,347	c 32	N80-18253 *	US-PATENT-4,218,921	c 71	N81-15767 *	US-PATENT-4,265,416	c 14	N81-26161 *
US-PATENT-4,186,749	c 52	N80-18691 *	US-PATENT-4,218,941	c 37	N81-14319 *	US-PATENT-4,266,177	c 33	N81-27395 *
US-PATENT-4,187,394	c 32	N80-18252 *	US-PATENT-4,219,027	c 52	N81-14612 *	US-PATENT-4,266,743	c 08	N81-26152 *
US-PATENT-4,187,416	c 33	N80-18285 *	US-PATENT-4,219,084	c 31	N81-14137 *	US-PATENT-4,266,788	c 37	N81-26447 *
US-PATENT-4,187,470	c 36	N80-18372 *	US-PATENT-4,219,107	c 37	N81-15364 *	US-PATENT-4,267,594	c 33	N81-26359 *
US-PATENT-4,187,506	c 33	N80-18287 *	US-PATENT-4,219,171	c 37	N81-14320 *	US-PATENT-4,267,953	c 24	N81-26179 *
US-PATENT-4,188,368	c 31	N80-18231 *	US-PATENT-4,219,203	c 37	N81-15363 *	US-PATENT-4,267,992	c 37	N81-24443 *
US-PATENT-4,188,823	c 02	N80-20224 *	US-PATENT-4,219,926	c 44	N81-14389 *	US-PATENT-4,269,640	c 37	N82-24491 *
US-PATENT-4,189,234	c 74	N80-21138 *	US-PATENT-4,220,171	c 07	N81-14999 *	US-PATENT-4,269,787	c 27	N81-24256 *
US-PATENT-4,189,675	c 32	N80-20448 *	US-PATENT-4,221,005	c 32	N81-15179 *	US-PATENT-4,270,539	c 52	N81-28740 *
US-PATENT-4,189,914	c 07	N81-29129 *	US-PATENT-4,222,098	c 33	N81-14220 *	US-PATENT-4,270,984	c 44	N81-29524 *
US-PATENT-4,190,060	c 52	N81-29763 *	US-PATENT-4,225,102	c 02	N81-14968 *	US-PATENT-4,271,761	c 15	N82-24272 *
US-PATENT-4,190,626	c 24	N81-29163 *	US-PATENT-4,225,372	c 27	N81-14077 *	US-PATENT-4,272,046	c 08	N82-24205 *
US-PATENT-4,191,159	c 37	N80-29703 *	US-PATENT-4,226,475	c 43	N81-26509 *	US-PATENT-4,272,302	c 33	N81-26360 *
US-PATENT-4,191,505	c 44	N80-21828 *	US-PATENT-4,227,096	c 33	N81-17348 *	US-PATENT-4,272,470	c 23	N81-29160 *
US-PATENT-4,191,893	c 44	N80-29834 *	US-PATENT-4,228,422	c 33	N81-14221 *	US-PATENT-4,272,720	c 47	N82-24779 *
US-PATENT-4,192,290	c 44	N80-20810 *	US-PATENT-4,228,656	c 37	N81-14318 *	US-PATENT-4,273,304	c 05	N81-26114 *
US-PATENT-4,192,910	c 33	N80-20487 *	US-PATENT-4,229,182	c 28	N81-15119 *	US-PATENT-4,273,505	c 54	N81-26718 *
US-PATENT-4,192,910	c 44	N81-29524 *	US-PATENT-4,229,196	c 28	N81-14103 *	US-PATENT-4,273,918	c 27	N82-24338 *
US-PATENT-4,192,994	c 74	N80-21140 *	US-PATENT-4,229,473	c 24	N81-14000 *	US-PATENT-4,274,038	c 37	N81-33483 *
US-PATENT-4,193,388	c 44	N80-20808 *	US-PATENT-4,229,473	c 24	N81-33235 *	US-PATENT-4,274,285	c 35	N81-29407 *
US-PATENT-4,193,435	c 37	N80-23653 *	US-PATENT-4,230,717	c 52	N81-14613 *	US-PATENT-4,274,901	c 24	N81-33235 *
US-PATENT-4,193,570	c 35	N80-21719 *	US-PATENT-4,233,258	c 27	N81-14078 *	US-PATENT-4,275,317	c 33	N82-24418 *
US-PATENT-4,193,693	c 35	N80-20563 *	US-PATENT-4,233,606	c 32	N81-14185 *	US-PATENT-4,275,453	c 33	N82-24417 *
US-PATENT-4,193,827	c 28	N80-20402 *	US-PATENT-4,234,258	c 25	N81-14015 *	US-PATENT-4,276,344	c 27	N81-27272 *
US-PATENT-4,193,827	c 28	N81-14103 *	US-PATENT-4,234,715	c 25	N81-14016 *	US-PATENT-4,276,344	c 27	N85-21347 *
US-PATENT-4,194,115	c 25	N80-20334 *	US-PATENT-4,234,971	c 32	N81-14186 *	US-PATENT-4,276,403	c 27	N81-27271 *
US-PATENT-4,195,244	c 35	N80-20559 *	US-PATENT-4,235,060	c 37	N81-14317 *	US-PATENT-4,276,553	c 32	N81-27341 *
US-PATENT-4,195,279	c 35	N80-20560 *	US-PATENT-4,236,383	c 44	N81-17518 *	US-PATENT-4,276,588	c 33	N81-33404 *
US-PATENT-4,195,512	c 43	N80-23711 *	US-PATENT-4,236,684	c 08	N81-19130 *	US-PATENT-4,277,402	c 23	N82-16174 *
US-PATENT-4,195,666	c 37	N80-23654 *	US-PATENT-4,237,662	c 31	N81-27323 *	US-PATENT-4,277,721	c 33	N82-24415 *
US-PATENT-4,196,129	c 27	N80-32515 *	US-PATENT-4,238,911	c 31	N81-27324 *	US-PATENT-4,278,220	c 07	N82-26293 *
US-PATENT-4,196,619	c 46	N80-24906 *	US-PATENT-4,239,057	c 37	N81-17433 *	US-PATENT-4,278,351	c 74	N81-29963 *
US-PATENT-4,196,840	c 37	N80-23655 *	US-PATENT-4,240,256	c 37	N81-17432 *	US-PATENT-4,278,830	c 44	N81-29525 *
US-PATENT-4,197,530	c 33	N80-23559 *	US-PATENT-4,240,290	c 06	N81-17057 *	US-PATENT-4,278,830	c 44	N82-28780 *
US-PATENT-4,198,209	c 28	N80-23471 *	US-PATENT-4,240,601	c 43	N81-17499 *	US-PATENT-4,278,978	c 32	N81-29308 *
US-PATENT-4,198,232	c 26	N80-23419 *	US-PATENT-4,241,308	c 33	N81-17349 *	US-PATENT-4,279-018	c 33	N81-33405 *
US-PATENT-4,198,788	c 74	N80-24149 *	US-PATENT-4,241,312	c 35	N81-19427 *	US-PATENT-4,279,001	c 33	N82-24416 *
US-PATENT-4,198,792	c 25	N80-23383 *	US-PATENT-4,242,498	c 27	N81-17259 *	US-PATENT-4,279,632	c 31	N81-33319 *
US-PATENT-4,198,988	c 52	N80-23969 *	US-PATENT-4,242,553	c 33	N81-19389 *	US-PATENT-4,279,906	c 52	N81-29764 *
US-PATENT-4,199,448	c 27	N80-23452 *	US-PATENT-4,242,864	c 07	N81-19116 *	US-PATENT-4,280,141	c 33	N81-33403 *
US-PATENT-4,199,650	c 27	N80-24437 *	US-PATENT-4,243,323	c 74	N81-17888 *	US-PATENT-4,280,689	c 37	N81-33482 *
US-PATENT-4,199,764	c 32	N80-23524 *	US-PATENT-4,243,327	c 74	N81-17887 *	US-PATENT-4,280,766	c 35	N81-33448 *
US-PATENT-4,199,937	c 34	N80-24573 *	US-PATENT-4,244,215	c 04	N81-21047 *	US-PATENT-4,281,102	c 27	N81-29229 *
US-PATENT-4,199,937	c 44	N81-24519 *	US-PATENT-4,244,810	c 09	N82-29330 *	US-PATENT-4,281,384	c 18	N81-29152 *
US-PATENT-4,200,721	c 27	N80-24438 *	US-PATENT-4,244,853	c 27	N81-19296 *	US-PATENT-4,281,708	c 33	N82-24419 *
US-PATENT-4,201,468	c 32	N80-24510 *	US-PATENT-4,244,857	c 27	N81-17260 *	US-PATENT-4,282,479	c 33	N82-24420 *
US-PATENT-4,203,723	c 27	N80-26446 *	US-PATENT-4,245,085	c 27	N81-17262 *	US-PATENT-4,282,525	c 46	N82-12685 *
US-PATENT-4,204,037	c 51	N80-27067 *	US-PATENT-4,245,286	c 33	N81-19392 *	US-PATENT-4,282,752	c 44	N82-16474 *
US-PATENT-4,204,154	c 33	N80-26599 *	US-PATENT-4,245,288	c 33	N81-19393 *	US-PATENT-4,283,705	c 06	N82-16075 *
US-PATENT-4,204,402	c 07	N80-26298 *	US-PATENT-4,245,469	c 44	N81-24519 *	US-PATENT-4,283,995	c 37	N81-32510 *
US-PATENT-4,204,544	c 52	N80-27072 *	US-PATENT-4,245,566	c 31	N81-19343 *	US-PATENT-4,284,034	c 51	N81-32829 *
US-PATENT-4,204,899	c 24	N80-26388 *	US-PATENT-4,245,768	c 37	N81-19455 *	US-PATENT-4,284,461	c 27	N82-11206 *
US-PATENT-4,205,229	c 35	N80-26635 *	US-PATENT-4,245,956	c 05	N81-19087 *	US-PATENT-4,284,682	c 27	N82-16238 *
US-PATENT-4,206,383	c 72	N80-27163 *	US-PATENT-4,246,001	c 27	N81-17261 *	US-PATENT-4,286,209	c 35	N82-11431 *
US-PATENT-4,206,713	c 31	N81-15154 *	US-PATENT-4,246,901	c 52	N81-24711 *	US-PATENT-4,286,460	c 09	N82-11088 *
US-PATENT-4,206,970	c 74	N80-27185 *	US-PATENT-4,247,434	c 25	N81-19242 *	US-PATENT-4,286,542	c 37	N82-12441 *
US-PATENT-4,207,024	c 37	N80-26658 *	US-PATENT-4,248,083	c 35	N81-19426 *	US-PATENT-4,287,152	c 35	N82-11432 *
US-PATENT-4,207,024	c 37	N82-19540 *	US-PATENT-4,249,116	c 33	N81-20352 *	US-PATENT-4,287,518	c 32	N82-11336 *
US-PATENT-4,209,393	c 45	N82-11634 *	US-PATENT-4,249,238	c 07	N81-19115 *	US-PATENT-4,287,578	c 32	N82-18443 *
US-PATENT-4,209,561	c 24	N81-13999 *	US-PATENT-4,249,417	c 52	N81-20703 *	US-PATENT-4,287,606	c 74	N82-19029 *
US-PATENT-4,210,278	c 31	N80-32583 *	US-PATENT-4,249,957	c 44	N81-19558 *	US-PATENT-4,287,838	c 25	N82-11144 *
US-PATENT-4,210,401	c 35	N80-28687 *	US-PATENT-4,250,143	c 54	N81-24724 *	US-PATENT-4,288,585	c 27	N82-18389 *
US-PATENT-4,210,474	c 28	N80-28536 *	US-PATENT-4,252,007	c 33	N81-25299 *	US-PATENT-4,288,982	c 20	N82-18314 *
US-PATENT-4,210,622	c 44	N80-24741 *	US-PATENT-4,252,111	c 52	N81-25661 *	US-PATENT-4,290,612	c 37	N82-16408 *
US-PATENT-4,211,354	c 24	N81-17170 *	US-PATENT-4,252,440	c 39	N81-25400 *	US-PATENT-4,290,779	c 44	N82-16475 *
US-PATENT-4,211,354	c 24	N81-26179 *	US-PATENT-4,252,768	c 37	N81-25371 *	US-PATENT-4,291,294	c 04	N82-16059 *
US-PATENT-4,212,199	c 02	N80-28300 *	US-PATENT-4,253,156	c 34	N81-26402 *	US-PATENT-4,291,887	c 37	N82-12442 *
US-PATENT-4,212,297	c 51	N81-14605 *	US-PATENT-4,253,769	c 25	N81-25159 *	US-PATENT-4,292,375	c 24	N82-24296 *
US-PATENT-4,212,477	c 37	N80-28711 *	US-PATENT-4,254,464	c 62	N81-24779 *	US-PATENT-4,292,634	c 32	N82-12297 *
US-PATENT-4,212,477	c 37	N81-26447 *	US-PATENT-4,255,048	c 36	N81-24422 *	US-PATENT-4,293,522	c 25	N82-12166 *
US-PATENT-4,212,690	c 26	N80-28492 *	US-PATENT-4,255,495	c 26	N81-25188 *	US-PATENT-4,294,261	c 52	N82-11770 *

US-PATENT-4,294,264	c 52	N82-22875 *	US-PATENT-4,343,506	c 85	N82-33288 *	US-PATENT-4,388,965	c 34	N83-28356 *
US-PATENT-4,295,111	c 33	N82-11357 *	US-PATENT-4,343,584	c 37	N82-32731 *	US-PATENT-4,389,504	c 27	N83-28240 *
US-PATENT-4,295,140	c 35	N82-15381 *	US-PATENT-4,343,772	c 44	N83-10501 *	US-PATENT-4,389,504	c 27	N83-21349 *
US-PATENT-4,295,786	c 37	N82-19540 *	US-PATENT-4,344,591	c 24	N82-32417 *	US-PATENT-4,389,849	c 44	N83-28574 *
US-PATENT-4,298,833	c 33	N82-18493 *	US-PATENT-4,344,787	c 31	N83-31896 *	US-PATENT-4,389,904	c 35	N83-29650 *
US-PATENT-4,298,926	c 33	N82-18494 *	US-PATENT-4,344,996	c 27	N82-33521 *	US-PATENT-4,391,129	c 34	N83-31993 *
US-PATENT-4,298,987	c 60	N82-16747 *	US-PATENT-4,345,153	c 35	N82-32659 *	US-PATENT-4,391,423	c 18	N83-29303 *
US-PATENT-4,299,492	c 36	N82-16396 *	US-PATENT-4,346,595	c 06	N83-10040 *	US-PATENT-4,391,514	c 36	N83-34304 *
US-PATENT-4,300,106	c 36	N82-13415 *	US-PATENT-4,346,595	c 06	N84-34443 *	US-PATENT-4,391,518	c 36	N83-29680 *
US-PATENT-4,300,159	c 43	N82-13465 *	US-PATENT-4,346,715	c 52	N82-33996 *	US-PATENT-4,391,609	c 25	N83-31743 *
US-PATENT-4,300,656	c 71	N82-16800 *	US-PATENT-4,346,754	c 34	N83-34221 *	US-PATENT-4,392,356	c 34	N83-29625 *
US-PATENT-4,300,723	c 34	N82-13376 *	US-PATENT-4,346,990	c 36	N82-32712 *	US-PATENT-4,392,749	c 35	N83-29651 *
US-PATENT-4,301,740	c 37	N82-21587 *	US-PATENT-4,347,613	c 36	N83-10417 *	US-PATENT-4,392,874	c 35	N83-29652 *
US-PATENT-4,302,223	c 25	N82-21269 *	US-PATENT-4,349,424	c 24	N83-10117 *	US-PATENT-4,392,920	c 27	N83-29388 *
US-PATENT-4,302,734	c 33	N82-16340 *	US-PATENT-4,349,424	c 70	N84-28565 *	US-PATENT-4,393,039	c 25	N83-29324 *
US-PATENT-4,303,961	c 28	N82-18401 *	US-PATENT-4,349,429	c 25	N83-10126 *	US-PATENT-4,393,706	c 71	N83-32516 *
US-PATENT-4,304,219	c 44	N82-18686 *	US-PATENT-4,349,954	c 26	N83-10170 *	US-PATENT-4,393,708	c 71	N83-32515 *
US-PATENT-4,304,320	c 37	N82-18601 *	US-PATENT-4,350,410	c 74	N83-10900 *	US-PATENT-4,393,716	c 39	N83-32081 *
US-PATENT-4,305,205	c 37	N82-26672 *	US-PATENT-4,350,574	c 44	N83-10494 *	US-PATENT-4,393,777	c 37	N84-12491 *
US-PATENT-4,307,024	c 25	N82-24312 *	US-PATENT-4,351,022	c 33	N83-10345 *	US-PATENT-4,394,610	c 33	N83-31953 *
US-PATENT-4,307,510	c 60	N82-24839 *	US-PATENT-4,355,311	c 32	N83-31918 *	US-PATENT-4,394,726	c 60	N83-32342 *
US-PATENT-4,307,575	c 44	N82-26776 *	US-PATENT-4,355,870	c 74	N83-13978 *	US-PATENT-4,394,819	c 35	N83-32026 *
US-PATENT-4,307,856	c 05	N82-26277 *	US-PATENT-4,355,896	c 47	N83-32232 *	US-PATENT-4,395,123	c 74	N83-32577 *
US-PATENT-4,308,309	c 27	N82-24339 *	US-PATENT-4,357,402	c 25	N83-13188 *	US-PATENT-4,395,503	c 27	N83-34043 *
US-PATENT-4,308,868	c 52	N82-29863 *	US-PATENT-4,358,358	c 25	N83-13187 *	US-PATENT-4,395,511	c 27	N84-14324 *
US-PATENT-4,309,039	c 37	N82-24490 *	US-PATENT-4,358,480	c 24	N83-13172 *	US-PATENT-4,395,540	c 27	N84-22746 *
US-PATENT-4,309,146	c 44	N82-24639 *	US-PATENT-4,358,486	c 24	N83-13171 *	US-PATENT-4,395,540	c 27	N85-20123 *
US-PATENT-4,309,372	c 25	N82-21268 *	US-PATENT-4,358,732	c 33	N83-18996 *	US-PATENT-4,395,557	c 27	N83-31854 *
US-PATENT-4,310,049	c 25	N82-23282 *	US-PATENT-4,358,846	c 32	N83-13323 *	US-PATENT-4,395,557	c 27	N84-22745 *
US-PATENT-4,310,132	c 24	N82-26384 *	US-PATENT-4,360,325	c 44	N83-14693 *	US-PATENT-4,395,557	c 27	N85-21347 *
US-PATENT-4,310,574	c 27	N82-28441 *	US-PATENT-4,360,701	c 44	N83-14692 *	US-PATENT-4,395,656	c 33	N83-31952 *
US-PATENT-4,310,906	c 33	N82-26572 *	US-PATENT-4,362,361	c 74	N83-17305 *	US-PATENT-4,396,818	c 04	N84-27713 *
US-PATENT-4,311,055	c 54	N82-26987 *	US-PATENT-4,362,769	c 27	N83-34039 *	US-PATENT-4,397,716	c 44	N83-34449 *
US-PATENT-4,311,057	c 37	N82-24493 *	US-PATENT-4,363,188	c 51	N83-17045 *	US-PATENT-4,398,021	c 27	N83-34041 *
US-PATENT-4,311,378	c 35	N82-26628 *	US-PATENT-4,363,237	c 71	N83-17235 *	US-PATENT-4,398,021	c 27	N85-20124 *
US-PATENT-4,311,615	c 25	N82-26396 *	US-PATENT-4,363,242	c 33	N83-16626 *	US-PATENT-4,398,129	c 33	N83-34189 *
US-PATENT-4,311,870	c 44	N82-26777 *	US-PATENT-4,366,680	c 31	N83-31897 *	US-PATENT-4,398,412	c 35	N84-28018 *
US-PATENT-4,312,292	c 37	N82-24492 *	US-PATENT-4,370,750	c 34	N83-19015 *	US-PATENT-4,398,667	c 71	N84-14873 *
US-PATENT-4,313,077	c 33	N82-26569 *	US-PATENT-4,371,301	c 37	N83-19091 *	US-PATENT-4,398,925	c 71	N83-35781 *
US-PATENT-4,313,103	c 33	N82-26570 *	US-PATENT-4,371,596	c 44	N83-32176 *	US-PATENT-4,399,415	c 36	N83-35350 *
US-PATENT-4,313,291	c 09	N82-29330 *	US-PATENT-4,371,873	c 32	N83-19968 *	US-PATENT-4,399,515	c 35	N84-14491 *
US-PATENT-4,313,726	c 09	N82-24212 *	US-PATENT-4,371,946	c 32	N83-18975 *	US-PATENT-4,400,191	c 31	N83-35176 *
US-PATENT-4,313,745	c 27	N82-28442 *	US-PATENT-4,372,110	c 07	N83-33884 *	US-PATENT-4,400,642	c 76	N83-34796 *
US-PATENT-4,313,777	c 33	N82-26571 *	US-PATENT-4,372,158	c 44	N83-21503 *	US-PATENT-4,400,657	c 33	N83-34130 *
US-PATENT-4,314,984	c 25	N82-28368 *	US-PATENT-4,372,159	c 44	N83-21504 *	US-PATENT-4,401,505	c 76	N83-35888 *
US-PATENT-4,315,194	c 33	N82-26568 *	US-PATENT-4,372,377	c 74	N83-19596 *	US-PATENT-4,401,934	c 33	N83-35227 *
US-PATENT-4,315,197	c 33	N82-24421 *	US-PATENT-4,372,680	c 35	N83-21311 *	US-PATENT-4,401,953	c 33	N83-34191 *
US-PATENT-4,315,266	c 32	N82-27558 *	US-PATENT-4,373,003	c 27	N83-18908 *	US-PATENT-4,402,221	c 71	N83-36846 *
US-PATENT-4,316,035	c 23	N82-28353 *	US-PATENT-4,373,039	c 27	N83-19900 *	US-PATENT-4,402,358	c 34	N83-35307 *
US-PATENT-4,317,102	c 35	N82-24470 *	US-PATENT-4,373,142	c 44	N83-32175 *	US-PATENT-4,402,447	c 35	N83-35338 *
US-PATENT-4,319,133	c 33	N82-28545 *	US-PATENT-4,373,989	c 76	N83-20789 *	US-PATENT-4,402,992	c 31	N83-35177 *
US-PATENT-4,320,290	c 74	N82-24072 *	US-PATENT-4,374,183	c 26	N83-31795 *	US-PATENT-4,404,469	c 74	N84-11920 *
US-PATENT-4,320,397	c 32	N82-23376 *	US-PATENT-4,374,378	c 35	N83-34272 *	US-PATENT-4,404,793	c 07	N83-36029 *
US-PATENT-4,320,911	c 37	N82-24494 *	US-PATENT-4,375,281	c 05	N83-19737 *	US-PATENT-4,405,184	c 37	N84-12492 *
US-PATENT-4,321,099	c 44	N82-28780 *	US-PATENT-4,375,396	c 31	N83-19947 *	US-PATENT-4,405,197	c 74	N84-11921 *
US-PATENT-4,321,572	c 33	N82-24422 *	US-PATENT-4,375,536	c 27	N83-34040 *	US-PATENT-4,406,256	c 37	N83-36483 *
US-PATENT-4,325,001	c 35	N82-24471 *	US-PATENT-4,375,674	c 39	N83-20280 *	US-PATENT-4,406,797	c 25	N83-36118 *
US-PATENT-4,325,707	c 25	N82-29371 *	US-PATENT-4,376,637	c 35	N84-17555 *	US-PATENT-4,406,989	c 33	N83-36356 *
US-PATENT-4,326,381	c 44	N82-24640 *	US-PATENT-4,376,872	c 44	N83-32177 *	US-PATENT-4,407,001	c 33	N83-36355 *
US-PATENT-4,326,685	c 04	N82-23231 *	US-PATENT-4,377,089	c 35	N83-21312 *	US-PATENT-4,407,165	c 37	N83-36482 *
US-PATENT-4,327,150	c 27	N82-24340 *	US-PATENT-4,377,169	c 52	N83-21785 *	US-PATENT-4,407,468	c 01	N83-35992 *
US-PATENT-4,327,437	c 60	N82-29013 *	US-PATENT-4,377,266	c 07	N83-20944 *	US-PATENT-4,407,563	c 74	N83-36898 *
US-PATENT-4,327,581	c 09	N82-23254 *	US-PATENT-4,377,343	c 74	N83-21949 *	US-PATENT-4,407,589	c 33	N83-36357 *
US-PATENT-4,328,464	c 36	N82-28616 *	US-PATENT-4,377,371	c 18	N83-20996 *	US-PATENT-4,407,686	c 35	N84-12443 *
US-PATENT-4,329,114	c 07	N82-32366 *	US-PATENT-4,377,371	c 37	N84-22957 *	US-PATENT-4,408,597	c 52	N84-11744 *
US-PATENT-4,329,385	c 27	N82-28440 *	US-PATENT-4,377,949	c 45	N83-25217 *	US-PATENT-4,408,658	c 27	N83-36220 *
US-PATENT-4,330,100	c 05	N82-28279 *	US-PATENT-4,378,209	c 35	N83-24828 *	US-PATENT-4,410,189	c 37	N84-11497 *
US-PATENT-4,330,359	c 76	N82-30105 *	US-PATENT-4,378,813	c 52	N83-25346 *	US-PATENT-4,410,682	c 24	N84-11213 *
US-PATENT-4,330,572	c 27	N82-33520 *	US-PATENT-4,379,970	c 33	N83-24763 *	US-PATENT-4,411,380	c 24	N84-11214 *
US-PATENT-4,331,422	c 52	N82-29862 *	US-PATENT-4,380,046	c 60	N83-25378 *	US-PATENT-4,411,597	c 07	N84-22560 *
US-PATENT-4,331,742	c 44	N82-29710 *	US-PATENT-4,381,174	c 37	N83-26078 *	US-PATENT-4,411,660	c 54	N84-11758 *
US-PATENT-4,331,746	c 44	N82-29708 *	US-PATENT-4,381,333	c 44	N83-34448 *	US-PATENT-4,412,664	c 02	N84-11136 *
US-PATENT-4,331,873	c 44	N82-32841 *	US-PATENT-4,381,375	c 37	N83-34323 *	US-PATENT-4,413,522	c 35	N84-12445 *
US-PATENT-4,331,956	c 33	N82-29538 *	US-PATENT-4,381,583	c 31	N83-31895 *	US-PATENT-4,413,784	c 34	N84-12406 *
US-PATENT-4,332,441	c 36	N82-29589 *	US-PATENT-4,381,881	c 74	N83-29032 *	US-PATENT-4,414,080	c 25	N84-12262 *
US-PATENT-4,335,190	c 27	N83-31855 *	US-PATENT-4,382,116	c 44	N83-27344 *	US-PATENT-4,414,509	c 35	N84-12444 *
US-PATENT-4,335,196	c 44	N83-13579 *	US-PATENT-4,382,224	c 33	N83-27126 *	US-PATENT-4,414,816	c 07	N84-24577 *
US-PATENT-4,335,206	c 35	N82-28604 *	US-PATENT-4,382,239	c 32	N83-27085 *	US-PATENT-4,415,133	c 05	N84-12154 *
US-PATENT-4,335,503	c 44	N82-29709 *	US-PATENT-4,383,171	c 35	N83-27184 *	US-PATENT-4,415,311	c 37	N84-12493 *
US-PATENT-4,336,117	c 26	N82-29415 *	US-PATENT-4,383,533	c 52	N83-27578 *	US-PATENT-4,415,450	c 45	N84-12654 *
US-PATENT-4,336,276	c 27	N82-29453 *	US-PATENT-4,383,785	c 31	N83-27058 *	US-PATENT-4,416,111	c 07	N84-33410 *
US-PATENT-4,336,616	c 33	N82-29539 *	US-PATENT-4,384,578	c 52	N83-27577 *	US-PATENT-4,416,266	c 52	N84-28388 *
US-PATENT-4,338,061	c 07	N83-31603 *	US-PATENT-4,384,823	c 34	N83-27144 *	US-PATENT-4,417,175	c 70	N84-28565 *
US-PATENT-4,338,368	c 27	N82-29456 *	US-PATENT-4,385,043	c 24	N83-25789 *	US-PATENT-4,417,190	c 33	N84-14424 *
US-PATENT-4,338,371	c 24	N82-29362 *	US-PATENT-4,385,113	c 51	N83-27569 *	US-PATENT-4,417,215	c 33	N84-14421 *
US-PATENT-4,338,371	c 54	N84-11758 *	US-PATENT-4,385,949	c 31	N83-34073 *	US-PATENT-4,418,130	c 33	N84-14422 *
US-PATENT-4,338,516	c 74	N82-30071 *	US-PATENT-4,386,157	c 51	N83-28849 *	US-PATENT-4,418,480	c 04	N84-14132 *
US-PATENT-4,338,568	c 33	N83-31954 *	US-PATENT-4,386,750	c 18	N83-28064 *	US-PATENT-4,418,722	c 44	N84-14583 *
US-PATENT-4,340,318	c 37	N82-32732 *	US-PATENT-4,387,513	c 06	N83-33882 *	US-PATENT-4,420,035	c 34	N84-14461 *
US-PATENT-4,340,425	c 26	N82-31505 *	US-PATENT-4,387,935	c 37	N83-32067 *	US-PATENT-4,420,352	c 27	N84-22748 *
US-PATENT-4,341,012	c 35	N82-31659 *	US-PATENT-4,388,171	c 23	N84-16255 *	US-PATENT-4,420,518	c 27	N84-14323 *
US-PATENT-4,341,843	c 26	N82-30371 *	US-PATENT-4,388,346	c 33	N84-16456 *	US-PATENT-4,420,836	c 36	N84-14509 *
US-PATENT-4,341,918	c 44	N82-31764 *	US-PATENT-4,388,502	c 05	N83-27975 *	US-PATENT-4,420,977	c 71	N84-23233 *
US-PATENT-4,341,925	c 32	N82-31583 *	US-PATENT-4,388,542	c 44	N83-28573 *	US-PATENT-4,421,109	c 54	N84-16803 *
US-PATENT-4,343,287	c 37	N82-32730 *	US-PATENT-4,388,585	c 33	N83-28319 *	US-PATENT-4,421,371	c 33	N84-14423 *
US-PATENT-4,343,447	c 08	N82-32373 *	US-PATENT-4,388,585	c 33	N84-33660 *	US-PATENT-4,421,700	c 24	N84-16262 *

US-PATENT-4,421,820	c 27	N84-14322 *	US-PATENT-4,466,242	c 20	N85-21256 *	US-PATENT-4,516,071	c 33	N85-30187 *
US-PATENT-4,422,012	c 33	N84-16452 *	US-PATENT-4,466,667	c 35	N84-33768 *	US-PATENT-4,516,435	c 37	N85-29286 *
US-PATENT-4,422,609	c 37	N84-16560 *	US-PATENT-4,469,552	c 76	N84-35113 *	US-PATENT-4,517,472	c 33	N85-29147 *
US-PATENT-4,423,605	c 34	N84-22903 *	US-PATENT-4,469,942	c 35	N84-33767 *	US-PATENT-4,517,505	c 37	N85-30333 *
US-PATENT-4,424,592	c 36	N84-16542 *	US-PATENT-4,469,998	c 33	N84-33661 *	US-PATENT-4,517,530	c 33	N85-29143 *
US-PATENT-4,425,376	c 71	N84-16940 *	US-PATENT-4,470,293	c 37	N84-33807 *	US-PATENT-4,518,277	c 37	N85-30336 *
US-PATENT-4,425,543	c 33	N84-16454 *	US-PATENT-4,470,403	c 44	N84-34792 *	US-PATENT-4,518,625	c 24	N85-30027 *
US-PATENT-4,425,785	c 15	N84-16231 *	US-PATENT-4,471,357	c 32	N84-34651 *	US-PATENT-4,518,722	c 27	N85-29044 *
US-PATENT-4,425,808	c 35	N84-28015 *	US-PATENT-4,472,473	c 18	N84-33450 *	US-PATENT-4,519,545	c 37	N85-29283 *
US-PATENT-4,425,808	c 35	N85-21598 *	US-PATENT-4,472,716	c 35	N84-33769 *	US-PATENT-4,520,601	c 37	N85-30335 *
US-PATENT-4,425,854	c 25	N84-16276 *	US-PATENT-4,472,728	c 35	N84-33765 *	US-PATENT-4,520,656	c 71	N85-29693 *
US-PATENT-4,426,614	c 33	N84-16455 *	US-PATENT-4,473,259	c 37	N85-20337 *	US-PATENT-4,521,077	c 74	N85-29750 *
US-PATENT-4,426,678	c 33	N84-16453 *	US-PATENT-4,473,674	c 24	N84-34571 *	US-PATENT-4,521,659	c 31	N85-29083 *
US-PATENT-4,426,874	c 35	N84-28019 *	US-PATENT-4,473,792	c 33	N84-33660 *	US-PATENT-4,521,688	c 35	N85-30281 *
US-PATENT-4,428,122	c 35	N84-16523 *	US-PATENT-4,474,062	c 06	N84-34443 *	US-PATENT-4,521,702	c 33	N85-29145 *
US-PATENT-4,428,226	c 07	N84-22559 *	US-PATENT-4,474,180	c 52	N84-34913 *	US-PATENT-4,521,854	c 33	N85-29142 *
US-PATENT-4,428,675	c 35	N84-22929 *	US-PATENT-4,474,471	c 35	N84-34705 *	US-PATENT-4,522,469	c 76	N85-33826 *
US-PATENT-4,428,703	c 37	N84-16561 *	US-PATENT-4,474,975	c 25	N85-21280 *	US-PATENT-4,522,661	c 76	N85-30922 *
US-PATENT-4,429,537	c 37	N84-22958 *	US-PATENT-4,475,063	c 33	N85-21491 *	US-PATENT-4,522,755	c 27	N86-19455 *
US-PATENT-4,430,360	c 37	N84-22957 *	US-PATENT-4,475,385	c 09	N84-34448 *	US-PATENT-4,522,844	c 26	N85-29005 *
US-PATENT-4,430,673	c 74	N84-23247 *	US-PATENT-4,475,527	c 37	N85-21650 *	US-PATENT-4,523,008	c 27	N85-29043 *
US-PATENT-4,431,306	c 35	N84-22931 *	US-PATENT-4,475,921	c 71	N85-22104 *	US-PATENT-4,523,682	c 71	N85-30765 *
US-PATENT-4,431,333	c 18	N84-22605 *	US-PATENT-4,478,879	c 44	N85-20530 *	US-PATENT-4,523,741	c 37	N85-29284 *
US-PATENT-4,431,761	c 27	N84-22747 *	US-PATENT-4,479,053	c 74	N85-22139 *	US-PATENT-4,523,810	c 74	N85-29749 *
US-PATENT-4,431,792	c 27	N84-22746 *	US-PATENT-4,479,386	c 27	N85-20126 *	US-PATENT-4,524,237	c 44	N85-30475 *
US-PATENT-4,432,853	c 52	N84-23095 *	US-PATENT-4,479,560	c 35	N85-20294 *	US-PATENT-4,526,925	c 27	N86-20560 *
US-PATENT-4,433,115	c 27	N84-22745 *	US-PATENT-4,481,570	c 60	N85-21992 *	US-PATENT-4,526,995	c 27	N87-22845 *
US-PATENT-4,433,276	c 33	N84-22885 *	US-PATENT-4,482,778	c 44	N85-21768 *	US-PATENT-4,527,092	c 37	N85-33489 *
US-PATENT-4,433,439	c 54	N84-23113 *	US-PATENT-4,482,779	c 33	N85-21492 *	US-PATENT-4,527,910	c 37	N85-33490 *
US-PATENT-4,433,544	c 44	N84-23018 *	US-PATENT-4,483,512	c 37	N85-20338 *	US-PATENT-4,528,386	c 23	N85-33187 *
US-PATENT-4,433,672	c 44	N84-28203 *	US-PATENT-4,483,639	c 37	N85-21649 *	US-PATENT-4,528,417	c 44	N85-34441 *
US-PATENT-4,434,106	c 27	N84-22744 *	US-PATENT-4,483,817	c 25	N85-21279 *	US-PATENT-4,528,639	c 60	N85-33701 *
US-PATENT-4,434,189	c 36	N84-22944 *	US-PATENT-4,485,151	c 24	N85-21266 *	US-PATENT-4,529,358	c 34	N85-33433 *
US-PATENT-4,434,490	c 36	N84-22943 *	US-PATENT-4,485,151	c 24	N85-35233 *	US-PATENT-4,531,143	c 33	N86-19516 *
US-PATENT-4,434,659	c 35	N84-22928 *	US-PATENT-4,485,670	c 34	N85-21568 *	US-PATENT-4,532,797	c 35	N85-34373 *
US-PATENT-4,435,642	c 35	N84-28016 *	US-PATENT-4,485,671	c 35	N85-20295 *	US-PATENT-4,533,101	c 07	N85-35194 *
US-PATENT-4,435,781	c 60	N84-28491 *	US-PATENT-4,485,992	c 08	N85-19985 *	US-PATENT-4,533,242	c 74	N85-34629 *
US-PATENT-4,437,069	c 33	N84-22887 *	US-PATENT-4,488,155	c 33	N85-21493 *	US-PATENT-4,534,166	c 07	N85-35195 *
US-PATENT-4,437,923	c 35	N84-22930 *	US-PATENT-4,488,335	c 27	N85-20125 *	US-PATENT-4,535,033	c 24	N85-35233 *
US-PATENT-4,437,961	c 33	N84-22884 *	US-PATENT-4,488,663	c 35	N85-21595 *	US-PATENT-4,535,035	c 26	N85-35267 *
US-PATENT-4,437,962	c 24	N84-22695 *	US-PATENT-4,489,027	c 27	N85-20124 *	US-PATENT-4,535,636	c 35	N85-34375 *
US-PATENT-4,437,962	c 24	N85-21267 *	US-PATENT-4,489,239	c 36	N85-21631 *	US-PATENT-4,536,114	c 37	N85-34401 *
US-PATENT-4,439,301	c 44	N84-23019 *	US-PATENT-4,489,243	c 44	N85-21769 *	US-PATENT-4,536,565	c 27	N85-34280 *
US-PATENT-4,439,465	c 26	N84-22734 *	US-PATENT-4,489,264	c 33	N85-22877 *	US-PATENT-4,537,554	c 85	N85-34722 *
US-PATENT-4,439,718	c 33	N84-22886 *	US-PATENT-4,490,117	c 09	N85-19990 *	US-PATENT-4,537,834	c 27	N85-34281 *
US-PATENT-4,439,766	c 32	N84-22820 *	US-PATENT-4,490,229	c 31	N85-20153 *	US-PATENT-4,538,066	c 35	N85-34374 *
US-PATENT-4,439,968	c 16	N84-22601 *	US-PATENT-4,491,427	c 37	N85-21651 *	US-PATENT-4,538,446	c 34	N86-12547 *
US-PATENT-4,442,716	c 35	N84-22934 *	US-PATENT-4,493,021	c 32	N85-21428 *	US-PATENT-4,538,778	c 08	N85-35200 *
US-PATENT-4,443,321	c 25	N84-22709 *	US-PATENT-4,493,211	c 09	N85-21178 *	US-PATENT-4,539,293	c 23	N85-35227 *
US-PATENT-4,443,701	c 74	N84-28590 *	US-PATENT-4,493,553	c 36	N85-21639 *	US-PATENT-4,540,986	c 04	N86-19304 *
US-PATENT-4,443,724	c 35	N84-28017 *	US-PATENT-4,495,044	c 24	N85-21267 *	US-PATENT-4,542,520	c 74	N86-20126 *
US-PATENT-4,444,368	c 05	N84-22551 *	US-PATENT-4,495,339	c 25	N85-30039 *	US-PATENT-4,542,858	c 33	N86-20669 *
US-PATENT-4,444,464	c 74	N84-23248 *	US-PATENT-4,495,520	c 32	N85-21427 *	US-PATENT-4,542,963	c 74	N86-20125 *
US-PATENT-4,444,972	c 27	N84-22750 *	US-PATENT-4,496,122	c 05	N85-21147 *	US-PATENT-4,543,295	c 27	N86-20561 *
US-PATENT-4,444,979	c 27	N84-22749 *	US-PATENT-4,496,701	c 27	N85-21347 *	US-PATENT-4,543,302	c 44	N86-19721 *
US-PATENT-4,445,118	c 04	N84-22546 *	US-PATENT-4,497,540	c 74	N85-23396 *	US-PATENT-4,543,442	c 76	N86-20150 *
US-PATENT-4,445,378	c 35	N84-22933 *	US-PATENT-4,497,935	c 27	N85-21349 *	US-PATENT-4,544,025	c 35	N86-20750 *
US-PATENT-4,446,199	c 26	N84-33555 *	US-PATENT-4,497,939	c 27	N85-21351 *	US-PATENT-4,544,068	c 35	N86-20751 *
US-PATENT-4,446,396	c 35	N84-22932 *	US-PATENT-4,497,940	c 27	N85-21352 *	US-PATENT-4,545,025	c 60	N86-21154 *
US-PATENT-4,446,459	c 60	N84-28492 *	US-PATENT-4,497,948	c 27	N85-21350 *	US-PATENT-4,545,553	c 33	N86-20671 *
US-PATENT-4,446,556	c 36	N84-28065 *	US-PATENT-4,498,231	c 35	N85-21598 *	US-PATENT-4,545,586	c 37	N86-20788 *
US-PATENT-4,446,757	c 37	N84-28084 *	US-PATENT-4,498,333	c 35	N85-21597 *	US-PATENT-4,545,723	c 37	N86-19603 *
US-PATENT-4,447,251	c 71	N84-28568 *	US-PATENT-4,499,260	c 27	N85-21348 *	US-PATENT-4,546,248	c 32	N86-20647 *
US-PATENT-4,447,943	c 52	N84-28389 *	US-PATENT-4,499,424	c 35	N85-21596 *	US-PATENT-4,547,121	c 37	N86-20789 *
US-PATENT-4,448,408	c 37	N84-28083 *	US-PATENT-4,499,470	c 43	N85-21723 *	US-PATENT-4,547,686	c 33	N86-20672 *
US-PATENT-4,449,370	c 37	N84-33808 *	US-PATENT-4,500,265	c 31	N85-21404 *	US-PATENT-4,548,083	c 39	N86-20841 *
US-PATENT-4,449,400	c 47	N84-28292 *	US-PATENT-4,500,492	c 37	N85-21652 *	US-PATENT-4,549,435	c 35	N86-20752 *
US-PATENT-4,449,514	c 44	N84-28204 *	US-PATENT-4,503,436	c 32	N85-29118 *	US-PATENT-4,550,129	c 24	N86-19380 *
US-PATENT-4,449,894	c 37	N84-28081 *	US-PATENT-4,505,998	c 33	N85-29144 *	US-PATENT-4,550,177	c 23	N86-19376 *
US-PATENT-4,450,268	c 27	N84-27884 *	US-PATENT-4,506,183	c 34	N85-29179 *	US-PATENT-4,550,292	c 23	N86-24692 *
US-PATENT-4,450,447	c 32	N84-27951 *	US-PATENT-4,507,928	c 31	N85-29082 *	US-PATENT-4,550,561	c 33	N86-20668 *
US-PATENT-4,451,017	c 18	N84-27787 *	US-PATENT-4,508,296	c 18	N85-29991 *	US-PATENT-4,551,677	c 07	N86-20389 *
US-PATENT-4,451,496	c 26	N84-27855 *	US-PATENT-4,509,048	c 32	N85-34327 *	US-PATENT-4,551,687	c 35	N86-32698 *
US-PATENT-4,452,088	c 24	N84-27829 *	US-PATENT-4,509,130	c 36	N85-29264 *	US-PATENT-4,551,687	c 33	N86-20670 *
US-PATENT-4,452,412	c 16	N84-27784 *	US-PATENT-4,509,132	c 33	N85-34333 *	US-PATENT-4,551,724	c 43	N86-19711 *
US-PATENT-4,453,163	c 06	N84-27733 *	US-PATENT-4,509,548	c 37	N85-34403 *	US-PATENT-4,552,466	c 37	N86-19606 *
US-PATENT-4,454,611	c 54	N84-28484 *	US-PATENT-4,510,277	c 27	N85-34282 *	US-PATENT-4,552,784	c 26	N86-32550 *
US-PATENT-4,454,649	c 44	N84-28205 *	US-PATENT-4,510,296	c 23	N85-28973 *	US-PATENT-4,552,931	c 27	N86-19456 *
US-PATENT-4,454,753	c 09	N84-27749 *	US-PATENT-4,510,476	c 33	N85-29146 *	US-PATENT-4,553,110	c 33	N86-19515 *
US-PATENT-4,455,418	c 27	N84-27885 *	US-PATENT-4,511,362	c 25	N85-35253 *	US-PATENT-4,553,393	c 37	N86-19604 *
US-PATENT-4,455,418	c 25	N85-28982 *	US-PATENT-4,511,838	c 76	N85-30923 *	US-PATENT-4,553,917	c 26	N86-32551 *
US-PATENT-4,455,532	c 72	N84-28575 *	US-PATENT-4,512,332	c 44	N85-30474 *	US-PATENT-4,554,905	c 18	N86-20469 *
US-PATENT-4,455,680	c 32	N84-27952 *	US-PATENT-4,512,661	c 35	N85-30282 *	US-PATENT-4,556,327	c 35	N86-19580 *
US-PATENT-4,456,208	c 27	N84-27886 *	US-PATENT-4,512,678	c 37	N85-30334 *	US-PATENT-4,556,986	c 74	N86-21348 *
US-PATENT-4,456,708	c 51	N84-28361 *	US-PATENT-4,512,699	c 37	N85-29285 *	US-PATENT-4,557,097	c 31	N86-19479 *
US-PATENT-4,458,418	c 37	N84-28085 *	US-PATENT-4,512,846	c 76	N85-29800 *	US-PATENT-4,557,149	c 35	N86-19581 *
US-PATENT-4,458,554	c 37	N84-28082 *	US-PATENT-4,513,317	c 32	N85-29117 *	US-PATENT-4,557,444	c 05	N86-19310 *
US-PATENT-4,459,083	c 02	N84-28732 *	US-PATENT-4,513,423	c 36	N85-30305 *	US-PATENT-4,558,585	c 71	N86-21276 *
US-PATENT-4,459,470	c 27	N84-33589 *	US-PATENT-4,513,750	c 52	N85-30618 *	US-PATENT-4,558,967	c 37	N86-19605 *
US-PATENT-4,459,528	c 33	N84-27975 *	US-PATENT-4,513,810	c 35	N85-29214 *	US-PATENT-4,560,577	c 27	N86-19458 *
US-PATENT-4,459,562	c 33	N84-27974 *	US-PATENT-4,514,137	c 37	N85-29282 *	US-PATENT-4,560,742	c 27	N86-19457 *
US-PATENT-4,462,871	c 76	N84-35112 *	US-PATENT-4,514,143	c 05	N85-29947 *	US-PATENT-4,561,784	c 25	N86-19413 *
US-PATENT-4,463,357	c 46	N85-21846 *	US-PATENT-4,514,178	c 35	N85-29212 *	US-PATENT-4,562,583	c 74	N86-20124 *
US-PATENT-4,463,465	c 03	N84-33394 *	US-PATENT-4,514,557	c 25	N85-28982 *	US-PATENT-4,564,787	c 33	N86-21742 *
US-PATENT-4,463,606	c 71	N85-22105 *	US-PATENT-4,515,207	c 34	N85-29180 *	US-PATENT-4,565,557	c 31	N86-21718 *
US-PATENT-4,464,710	c 33	N84-33663 *	US-PATENT-4,515,751	c 35	N85-29213 *	US-PATENT-4,565,886	c 27	N86-21675 *

US-PATENT-4,566,447	c 54	N86-22112 *	US-PATENT-4,638,083	c 27	N87-16907 *	US-PATENT-4,708,305	c 08	N88-23809 *
US-PATENT-4,567,301	c 23	N86-21582 *	US-PATENT-4,641,499	c 31	N87-21159 *	US-PATENT-4,708,330	c 37	N88-14360 *
US-PATENT-4,567,348	c 37	N86-21850 *	US-PATENT-4,642,523	c 33	N87-21234 *	US-PATENT-4,709,252	c 33	N88-14271 *
US-PATENT-4,568,733	c 24	N86-21590 *	US-PATENT-4,644,234	c 33	N87-21233 *	US-PATENT-4,710,618	c 44	N88-14492 *
US-PATENT-4,572,004	c 35	N86-25752 *	US-PATENT-4,644,306	c 33	N87-22895 *	US-PATENT-4,711,697	c 76	N88-14835 *
US-PATENT-4,572,699	c 37	N87-22976 *	US-PATENT-4,644,794	c 71	N87-21652 *	US-PATENT-4,711,857	c 76	N88-14836 *
US-PATENT-4,573,356	c 71	N88-24241 *	US-PATENT-4,645,358	c 32	N87-21206 *	US-PATENT-4,711,932	c 27	N88-18725 *
US-PATENT-4,578,678	c 04	N86-27270 *	US-PATENT-4,646,860	c 85	N87-21755 *	US-PATENT-4,713,275	c 24	N88-18628 *
US-PATENT-4,578,920	c 37	N86-25789 *	US-PATENT-4,647,144	c 74	N87-21679 *	US-PATENT-4,718,281	c 35	N88-23967 *
US-PATENT-4,579-782	c 24	N86-25416 *	US-PATENT-4,647,615	c 27	N87-22845 *	US-PATENT-4,720,139	c 37	N88-23982 *
US-PATENT-4,579,302	c 18	N86-24729 *	US-PATENT-4,648,133	c 32	N87-21207 *	US-PATENT-4,723,096	c 33	N88-23942 *
US-PATENT-4,579,475	c 37	N86-27630 *	US-PATENT-4,648,267	c 34	N87-21255 *	US-PATENT-4,723,800	c 37	N88-23979 *
US-PATENT-4,580-791	c 37	N86-25790 *	US-PATENT-4,648,569	c 08	N87-20999 *	US-PATENT-4,725,106	c 54	N88-24163 *
US-PATENT-4,582,277	c 16	N86-26352 *	US-PATENT-4,649,189	c 27	N87-21112 *	US-PATENT-4,726,890	c 76	N88-24543 *
US-PATENT-4,582,289	c 37	N87-21333 *	US-PATENT-4,649,273	c 72	N87-21661 *	US-PATENT-4,727,751	c 02	N88-23759 *
US-PATENT-4,582,590	c 25	N86-25428 *	US-PATENT-4,649,278	c 72	N87-21660 *	US-PATENT-4,728,257	c 37	N88-23978 *
US-PATENT-4,583,587	c 34	N86-27593 *	US-PATENT-4,649,287	c 44	N87-21410 *	US-PATENT-4,731,211	c 27	N88-23894 *
US-PATENT-4,583,860	c 74	N86-26190 *	US-PATENT-4,649,541	c 60	N87-21591 *	US-PATENT-4,732,353	c 08	N88-23808 *
US-PATENT-4,584,249	c 44	N86-25874 *	US-PATENT-4,649,750	c 71	N87-21653 *	US-PATENT-4,735,381	c 05	N88-23765 *
US-PATENT-4,584,510	c 08	N86-27288 *	US-PATENT-4,650,108	c 37	N87-21334 *	US-PATENT-4,736,247	c 36	N88-24958 *
US-PATENT-4,584,887	c 35	N86-26595 *	US-PATENT-4,650,385	c 37	N87-22976 *	US-PATENT-4,736,490	c 18	N88-23827 *
US-PATENT-4,585,191	c 20	N86-26368 *	US-PATENT-4,652,833	c 33	N87-21235 *	US-PATENT-4,736,676	c 37	N88-23981 *
US-PATENT-4,585,344	c 35	N86-25753 *	US-PATENT-4,654,065	c 27	N87-21111 *	US-PATENT-4,736,815	c 71	N88-24241 *
US-PATENT-4,586,140	c 06	N86-27280 *	US-PATENT-4,654,110	c 76	N87-23286 *	US-PATENT-4,736,927	c 35	N88-24927 *
US-PATENT-4,586,394	c 35	N87-21304 *	US-PATENT-4,655,482	c 37	N87-22977 *	US-PATENT-4,738,137	c 35	N88-23966 *
US-PATENT-4,586,487	c 44	N86-27706 *	US-PATENT-4,657,044	c 37	N87-21332 *	US-PATENT-4,738,583	c 18	N88-23828 *
US-PATENT-4,587,312	c 27	N86-27450 *	US-PATENT-4,660,000	c 33	N87-21232 *	US-PATENT-4,738,831	c 76	N88-24544 *
US-PATENT-4,587,324	c 23	N86-32525 *	US-PATENT-4,661,558	c 27	N87-22848 *	US-PATENT-4,740,264	c 76	N88-24545 *
US-PATENT-4,587,526	c 37	N86-25791 *	US-PATENT-4,661,770	c 33	N87-22894 *	US-PATENT-4,742,232	c 72	N88-24523 *
US-PATENT-4,588,778	c 27	N86-27451 *	US-PATENT-4,662,220	c 35	N87-22953 *	US-PATENT-4,748,263	c 23	N88-24692 *
US-PATENT-4,588,986	c 32	N86-27513 *	US-PATENT-4,662,751	c 74	N87-23259 *	US-PATENT-4,749,839	c 37	N88-23980 *
US-PATENT-4,591,772	c 37	N86-27629 *	US-PATENT-4,663-627	c 06	N87-22678 *	US-PATENT-4,750,031	c 33	N88-23941 *
US-PATENT-4,591,838	c 25	N86-27431 *	US-PATENT-4,663,483	c 27	N87-22847 *	US-PATENT-4,750,144	c 60	N88-24169 *
US-PATENT-4,593,415	c 54	N86-28618 *	US-PATENT-4,664,177	c 34	N87-22950 *	US-PATENT-4,750,543	c 34	N88-23958 *
US-PATENT-4,594,540	c 31	N86-29055 *	US-PATENT-4,664,177	c 34	N88-23958 *	US-PATENT-4,752,372	c 25	N88-23845 *
US-PATENT-4,594,720	c 36	N86-29204 *	US-PATENT-4,664,344	c 37	N87-22985 *	US-PATENT-4,757,278	c 33	N88-26964 *
US-PATENT-4,594,734	c 54	N86-28620 *	US-PATENT-4,664,980	c 27	N87-23736 *	US-PATENT-4,757,315	c 32	N88-26568 *
US-PATENT-4,595,399	c 35	N86-29174 *	US-PATENT-4,665,277	c 33	N87-23879 *	US-PATENT-4,757,767	c 18	N88-26398 *
US-PATENT-4,595,548	c 27	N86-29039 *	US-PATENT-4,665,334	c 37	N87-23970 *	US-PATENT-4,758,380	c 23	N88-26404 *
US-PATENT-4,596,626	c 76	N86-28760 *	US-PATENT-4,666,086	c 37	N87-24689 *	US-PATENT-4,761,744	c 25	N88-29002 *
US-PATENT-4,598,007	c 24	N86-28131 *	US-PATENT-4,666,561	c 25	N88-23846 *	US-PATENT-4,762,173	c 34	N88-29132 *
US-PATENT-4,598,427	c 54	N86-28619 *	US-PATENT-4,668,589	c 37	N87-25469 *	US-PATENT-4,762,619	c 31	N88-29052 *
US-PATENT-4,598,428	c 54	N86-29507 *	US-PATENT-4,669,354	c 27	N87-23983 *	US-PATENT-4,763,459	c 37	N88-29180 *
US-PATENT-4,598,981	c 74	N86-28732 *	US-PATENT-4,669,836	c 52	N87-24874 *	US-PATENT-4,763,762	c 37	N88-29181 *
US-PATENT-4,599,001	c 74	N86-29650 *	US-PATENT-4,669,958	c 08	N87-23631 *	US-PATENT-4,765,114	c 18	N88-28958 *
US-PATENT-4,600,299	c 74	N86-32266 *	US-PATENT-4,670,565	c 27	N87-23751 *	US-PATENT-4,765,139	c 35	N88-29151 *
US-PATENT-4,600,301	c 35	N86-32697 *	US-PATENT-4,672,202	c 37	N87-23982 *	US-PATENT-4,765,187	c 35	N88-29150 *
US-PATENT-4,600,769	c 27	N86-31726 *	US-PATENT-4,675,379	c 27	N87-24564 *	US-PATENT-4,765,396	c 34	N88-29133 *
US-PATENT-4,600,840	c 72	N86-33127 *	US-PATENT-4,675,563	c 33	N87-23904 *	US-PATENT-4,766,286	c 37	N88-30131 *
US-PATENT-4,602,081	c 27	N86-32568 *	US-PATENT-4,675,880	c 32	N87-25511 *	US-PATENT-4,766,369	c 35	N88-29149 *
US-PATENT-4,602,509	c 35	N86-32695 *	US-PATENT-4,676,110	c 39	N87-25601 *	US-PATENT-4,766,533	c 60	N88-29310 *
US-PATENT-4,603,061	c 27	N86-31727 *	US-PATENT-4,676,846	c 26	N87-28647 *	US-PATENT-4,766,724	c 09	N88-28939 *
US-PATENT-4,603,306	c 33	N86-32624 *	US-PATENT-4,676,853	c 37	N87-23981 *	US-PATENT-4,767,083	c 05	N88-28914 *
US-PATENT-4,604,038	c 37	N86-32738 *	US-PATENT-4,676,962	c 23	N87-23698 *	US-PATENT-4,767,484	c 35	N88-30100 *
US-PATENT-4,604,181	c 27	N86-32569 *	US-PATENT-4,677,629	c 36	N87-23960 *	US-PATENT-4,767,728	c 27	N88-29040 *
US-PATENT-4,604,844	c 37	N86-32737 *	US-PATENT-4,677,636	c 36	N87-23961 *	US-PATENT-4,769,968	c 31	N89-12786 *
US-PATENT-4,604,903	c 35	N86-32696 *	US-PATENT-4,677,642	c 35	N87-23944 *	US-PATENT-4,770,032	c 35	N89-12841 *
US-PATENT-4,605,155	c 37	N86-32736 *	US-PATENT-4,677,803	c 31	N87-25492 *	US-PATENT-4,770,038	c 35	N89-14407 *
US-PATENT-4,605,303	c 09	N86-32447 *	US-PATENT-4,678,438	c 14	N87-25344 *	US-PATENT-4,770,232	c 35	N89-12048 *
US-PATENT-4,605,424	c 33	N90-20320 *	US-PATENT-4,680,897	c 31	N87-25491 *	US-PATENT-4,770,238	c 34	N89-14392 *
US-PATENT-4,605,946	c 76	N87-13313 *	US-PATENT-4,681-818	c 26	N87-25455 *	US-PATENT-4,770,455	c 37	N89-13785 *
US-PATENT-4,607,193	c 31	N86-32587 *	US-PATENT-4,681,142	c 37	N87-25573 *	US-PATENT-4,771,250	c 32	N88-29076 *
US-PATENT-4,608,452	c 44	N86-32875 *	US-PATENT-4,681,437	c 76	N87-25862 *	US-PATENT-4,771,823	c 31	N89-12785 *
US-PATENT-4,608,821	c 20	N87-16875 *	US-PATENT-4,682,006	c 74	N87-25843 *	US-PATENT-4,772,050	c 37	N89-13786 *
US-PATENT-4,610,736	c 26	N87-14482 *	US-PATENT-4,682,053	c 36	N87-25567 *	US-PATENT-4,772,101	c 74	N89-14078 *
US-PATENT-4,612,072	c 76	N87-15882 *	US-PATENT-4,682,225	c 17	N87-25348 *	US-PATENT-4,772,175	c 18	N89-12621 *
US-PATENT-4,614,428	c 74	N87-14971 *	US-PATENT-4,682,343	c 33	N87-25531 *	US-PATENT-4,772,785	c 74	N89-14077 *
US-PATENT-4,615,637	c 18	N87-14373 *	US-PATENT-4,682,494	c 09	N87-25334 *	US-PATENT-4,772,893	c 32	N89-11961 *
US-PATENT-4,616,793	c 05	N87-14314 *	US-PATENT-4,682,745	c 37	N87-25582 *	US-PATENT-4,773,266	c 71	N89-13236 *
US-PATENT-4,618,215	c 09	N87-14355 *	US-PATENT-4,683,809	c 24	N87-27742 *	US-PATENT-4,773,620	c 05	N89-11738 *
US-PATENT-4,618,380	c 35	N87-14671 *	US-PATENT-4,684,156	c 18	N87-27713 *	US-PATENT-4,774,118	c 27	N89-12741 *
US-PATENT-4,618,652	c 27	N87-15304 *	US-PATENT-4,684,258	c 36	N87-28006 *	US-PATENT-4,774,359	c 23	N89-12667 *
US-PATENT-4,619,142	c 35	N87-14670 *	US-PATENT-4,684,424	c 74	N87-28416 *	US-PATENT-4,774,835	c 02	N89-12551 *
US-PATENT-4,619,423	c 02	N87-16793 *	US-PATENT-4,685,535	c 54	N87-29118 *	US-PATENT-4,775,740	c 27	N89-16042 *
US-PATENT-4,620,898	c 31	N87-21160 *	US-PATENT-4,687,048	c 34	N87-28867 *	US-PATENT-4,776,531	c 02	N89-14224 *
US-PATENT-4,621,492	c 20	N87-14420 *	US-PATENT-4,687,444	c 82	N87-29372 *	US-PATENT-4,776,541	c 35	N89-15379 *
US-PATENT-4,622,182	c 27	N87-14515 *	US-PATENT-4,687,964	c 33	N87-28832 *	US-PATENT-4,777,656	c 32	N89-14374 *
US-PATENT-4,623,255	c 33	N87-14594 *	US-PATENT-4,688,422	c 35	N87-28884 *	US-PATENT-4,777,823	c 35	N89-14422 *
US-PATENT-4,624,142	c 32	N87-14559 *	US-PATENT-4,689,188	c 27	N87-28656 *	US-PATENT-4,778,268	c 52	N89-16256 *
US-PATENT-4,624,561	c 35	N87-14669 *	US-PATENT-4,689,421	c 23	N87-28605 *	US-PATENT-4,779,222	c 33	N89-14384 *
US-PATENT-4,624,888	c 27	N87-14516 *	US-PATENT-4,689,522	c 33	N87-28831 *	US-PATENT-4,779,428	c 31	N89-14351 *
US-PATENT-4,626,046	c 37	N87-17034 *	US-PATENT-4,690,353	c 33	N87-28833 *	US-PATENT-4,780,276	c 26	N89-14303 *
US-PATENT-4,626,593	c 27	N87-16908 *	US-PATENT-4,690,749	c 27	N92-25397 *	US-PATENT-4,781,326	c 09	N89-25242 *
US-PATENT-4,629,147	c 07	N87-16828 *	US-PATENT-4,695,610	c 27	N87-28657 *	US-PATENT-4,781,993	c 29	N89-29538 *
US-PATENT-4,631,352	c 44	N87-17399 *	US-PATENT-4,696,808	c 76	N87-29360 *	US-PATENT-4,783,822	c 54	N89-29953 *
US-PATENT-4,631,538	c 17	N87-16863 *	US-PATENT-4,697,425	c 31	N88-14223 *	US-PATENT-4,783,994	c 35	N89-14423 *
US-PATENT-4,632,548	c 36	N87-17026 *	US-PATENT-4,697,922	c 36	N88-14350 *	US-PATENT-4,786,168	c 33	N89-14385 *
US-PATENT-4,633,060	c 74	N87-17493 *	US-PATENT-4,698,028	c 33	N88-14270 *	US-PATENT-4,788,271	c 27	N89-14337 *
US-PATENT-4,633,060	c 74	N87-25843 *	US-PATENT-4,698,484	c 37	N88-14362 *	US-PATENT-4,790,026	c 60	N89-26400 *
US-PATENT-4,634,191	c 37	N87-17038 *	US-PATENT-4,698,518	c 33	N88-24862 *	US-PATENT-4,798,433	c 74	N89-25689 *
US-PATENT-4,634,759	c 27	N87-16909 *	US-PATENT-4,698,723	c 03	N88-14083 *	US-PATENT-4,800,756	c 71	N90-12289 *
US-PATENT-4,634,759	c 23	N88-24692 *	US-PATENT-4,704,168	c 26	N88-14179 *	US-PATENT-4,805,368	c 18	N89-28554 *
US-PATENT-4,635,663	c 37	N87-17035 *	US-PATENT-4,704,197	c 25	N88-24732 *	US-PATENT-4,807,834	c 18	N89-25266 *
US-PATENT-4,635,773	c 37	N87-17037 *	US-PATENT-4,706,387	c 37	N88-14361 *	US-PATENT-4,809,003	c 32	N89-28672 *
US-PATENT-4,637,181	c 31	N87-16918 *	US-PATENT-4,706,910	c 02	N88-14071 *	US-PATENT-4,809,441	c 37	N89-28831 *
US-PATENT-4,637,447	c 37	N87-17036 *	US-PATENT-4,708,280	c 37	N88-14359 *	US-PATENT-4,809,936	c 18	N89-28553 *

US-PATENT-4,810,094	c 35	N89-26202 *	US-PATENT-4,911,890	c 35	N90-22025 *	US-PATENT-4,998,842	c 18	N91-21221 *
US-PATENT-4,810,438	c 27	N89-29539 *	US-PATENT-4,912,082	c 25	N90-23517 *	US-PATENT-4,999,553	c 37	N91-21544 *
US-PATENT-4,811,033	c 32	N89-25363 *	US-PATENT-4,912,238	c 23	N91-17141 *	US-PATENT-5,000,033	c 14	N91-21175 *
US-PATENT-4,815,279	c 20	N89-25279 *	US-PATENT-4,912,386	c 33	N90-21951 *	US-PATENT-5,000,416	c 37	N91-21543 *
US-PATENT-4,818,868	c 72	N89-29169 *	US-PATENT-4,912,411	c 26	N91-21170 *	US-PATENT-5,001,924	c 35	N91-21493 *
US-PATENT-4,819,064	c 32	N89-28676 *	US-PATENT-4,912,414	c 35	N90-22023 *	US-PATENT-5,002,890	c 51	N91-21701 *
US-PATENT-4,819,438	c 25	N90-11824 *	US-PATENT-4,913,225	c 31	N91-15424 *	US-PATENT-5,003,211	c 70	N91-21824 *
US-PATENT-4,820,488	c 26	N89-28621 *	US-PATENT-4,913,534	c 35	N91-13694 *	US-PATENT-5,003,235	c 37	N91-21539 *
US-PATENT-4,821,907	c 31	N89-29578 *	US-PATENT-4,916,954	c 35	N90-23712 *	US-PATENT-5,004,575	c 24	N91-25200 *
US-PATENT-4,823,074	c 33	N89-29681 *	US-PATENT-4,917,302	c 37	N90-23751 *	US-PATENT-5,005,147	c 32	N91-25317 *
US-PATENT-4,823,299	c 33	N89-28713 *	US-PATENT-4,917,332	c 05	N91-14345 *	US-PATENT-5,005,457	c 54	N91-26747 *
US-PATENT-4,831,818	c 20	N90-19298 *	US-PATENT-4,917,333	c 05	N90-23390 *	US-PATENT-5,005,787	c 54	N91-31803 #
US-PATENT-4,833,233	c 52	N90-20616 *	US-PATENT-4,917,940	c 76	N90-24168 *	US-PATENT-5,005,954	c 74	N91-26918 *
US-PATENT-4,836,035	c 35	N90-17117 *	US-PATENT-4,918,652	c 35	N90-23713 *	US-PATENT-5,007,068	c 32	N91-25316 *
US-PATENT-4,836,707	c 37	N90-17154 *	US-PATENT-4,919,852	c 27	N90-23566 *	US-PATENT-5,007,983	c 25	N91-31258 *
US-PATENT-4,837,300	c 27	N90-16950 *	US-PATENT-4,919,899	c 76	N90-24169 *	US-PATENT-5,008,061	c 24	N91-25199 *
US-PATENT-4,838,346	c 34	N90-20323 *	US-PATENT-4,920,487	c 62	N91-14769 *	US-PATENT-5,011,907	c 27	N91-27372 *
US-PATENT-4,839,046	c 51	N91-14703 *	US-PATENT-4,921,212	c 37	N91-14609 *	US-PATENT-5,011,955	c 23	N91-25185 *
US-PATENT-4,839,121	c 31	N90-19425 *	US-PATENT-4,921,293	c 37	N91-14616 *	US-PATENT-5,012,062	c 27	N91-25296 *
US-PATENT-4,839,330	c 25	N90-20154 *	US-PATENT-4,923,545	c 24	N90-25197 *	US-PATENT-5,013,531	c 76	N92-25398 *
US-PATENT-4,839,489	c 37	N90-19602 *	US-PATENT-4,923,741	c 54	N90-25498 *	US-PATENT-5,014,340	c 33	N91-31530 *
US-PATENT-4,840,394	c 37	N90-17153 *	US-PATENT-4,923,751	c 24	N90-25196 *	US-PATENT-5,014,917	c 37	N91-27560 *
US-PATENT-4,840,496	c 36	N90-17132 *	US-PATENT-4,924,053	c 31	N90-26168 *	US-PATENT-5,015,825	c 14	N91-27175 *
US-PATENT-4,842,223	c 18	N90-19278 *	US-PATENT-4,925,297	c 36	N90-25340 *	US-PATENT-5,015,851	c 72	N91-27936 *
US-PATENT-4,842,224	c 18	N90-16860 *	US-PATENT-4,926,481	c 60	N90-25583 *	US-PATENT-5,015,963	c 33	N91-26438 *
US-PATENT-4,843,123	c 27	N90-16949 *	US-PATENT-4,926,694	c 24	N91-14430 *	US-PATENT-5,016,418	c 18	N91-27199 *
US-PATENT-4,843,328	c 32	N90-17005 *	US-PATENT-4,927,326	c 37	N91-14608 *	US-PATENT-5,017,549	c 14	N92-15081 *
US-PATENT-4,843,439	c 35	N90-17118 *	US-PATENT-4,928,027	c 27	N91-14489 *	US-PATENT-5,017,883	c 32	N91-27439 *
US-PATENT-4,843,440	c 33	N90-20282 *	US-PATENT-4,932,270	c 35	N91-17350 *	US-PATENT-5,018,688	c 05	N91-27156 *
US-PATENT-4,843,554	c 09	N90-20096 *	US-PATENT-4,932,610	c 34	N91-14562 *	US-PATENT-5,019,176	c 44	N91-27614 *
US-PATENT-4,845,167	c 23	N90-19300 *	US-PATENT-4,932,688	c 37	N91-14613 *	US-PATENT-5,019,470	c 33	N91-27478 *
US-PATENT-4,845,728	c 60	N90-21525 *	US-PATENT-4,932,777	c 09	N91-14356 *	US-PATENT-5,019,533	c 76	N91-28014 *
US-PATENT-4,845,993	c 09	N91-14357 *	US-PATENT-4,932,806	c 37	N91-17387 *	US-PATENT-5,020,739	c 02	N91-27139 *
US-PATENT-4,846,854	c 31	N90-20254 *	US-PATENT-4,932,807	c 37	N91-15544 *	US-PATENT-5,020,742	c 03	N91-31113 *
US-PATENT-4,847,502	c 35	N90-20351 *	US-PATENT-4,933,558	c 74	N91-14835 *	US-PATENT-5,020,743	c 18	N91-27201 *
US-PATENT-4,847,837	c 62	N90-19776 *	US-PATENT-4,933,936	c 62	N91-14772 *	US-PATENT-5,020,774	c 34	N91-27504 *
US-PATENT-4,848,153	c 34	N90-19534 *	US-PATENT-4,936,146	c 34	N91-31596 *	US-PATENT-5,020,876	c 18	N91-27200 *
US-PATENT-4,848,987	c 29	N90-20236 *	US-PATENT-4,936,309	c 52	N91-14709 *	US-PATENT-5,021,065	c 54	N91-32795 *
US-PATENT-4,849,033	c 76	N90-19884 *	US-PATENT-4,936,869	c 28	N91-14495 *	US-PATENT-5,021,518	c 27	N91-31307 *
US-PATENT-4,849,903	c 33	N90-19492 *	US-PATENT-4,937,317	c 27	N91-15403 *	US-PATENT-5,021,729	c 33	N91-27479 *
US-PATENT-4,851,071	c 31	N90-19427 *	US-PATENT-4,937,356	c 23	N91-14419 *	US-PATENT-5,023,034	c 37	N91-27562 *
US-PATENT-4,851,491	c 27	N90-21177 *	US-PATENT-4,937,891	c 54	N91-14723 *	US-PATENT-5,024,288	c 71	N91-27913 *
US-PATENT-4,851,544	c 23	N90-21118 *	US-PATENT-4,942,632	c 54	N91-14724 *	US-PATENT-5,025,455	c 32	N91-25318 *
US-PATENT-4,852,578	c 52	N90-21519 *	US-PATENT-4,945,012	c 33	N91-14538 *	US-PATENT-5,026,008	c 34	N91-25380 *
US-PATENT-4,855,274	c 25	N90-20180 *	US-PATENT-4,945,549	c 32	N91-14523 *	US-PATENT-5,026,650	c 51	N91-30667 *
US-PATENT-4,858,717	c 31	N90-21215 *	US-PATENT-4,946,122	c 37	N91-14617 *	US-PATENT-5,027,182	c 74	N91-25841 *
US-PATENT-4,858,857	c 18	N90-20126 *	US-PATENT-4,946,421	c 37	N91-17388 *	US-PATENT-5,027,860	c 31	N91-25305 *
US-PATENT-4,858,979	c 37	N90-20408 *	US-PATENT-4,946,890	c 27	N91-15402 *	US-PATENT-5,029,216	c 35	N91-27522 *
US-PATENT-4,860,014	c 32	N90-20280 *	US-PATENT-4,947,408	c 32	N92-21712 *	US-PATENT-5,029,220	c 74	N91-25840 *
US-PATENT-4,860,074	c 35	N90-21358 *	US-PATENT-4,952,811	c 35	N91-14588 *	US-PATENT-5,031,089	c 62	N91-25693 #
US-PATENT-4,860,149	c 33	N90-20320 *	US-PATENT-4,952,836	c 76	N91-14872 *	US-PATENT-5,031,234	c 74	N91-27957 *
US-PATENT-4,860,295	c 36	N91-17360 #	US-PATENT-4,954,864	c 33	N91-14551 *	US-PATENT-5,031,627	c 71	N91-27914 *
US-PATENT-4,860,669	c 31	N91-15423 *	US-PATENT-4,955,653	c 37	N91-14615 *	US-PATENT-5,031,689	c 31	N91-27385 *
US-PATENT-4,860,971	c 03	N91-15142 *	US-PATENT-4,956,996	c 35	N91-15511 *	US-PATENT-5,032,045	c 37	N91-27561 *
US-PATENT-4,860,975	c 18	N91-14374 *	US-PATENT-4,957,139	c 34	N91-14563 *	US-PATENT-5,034,093	c 25	N92-25399 #
US-PATENT-4,861,416	c 76	N91-15898 *	US-PATENT-4,957,357	c 35	N91-14591 *	US-PATENT-5,034,187	c 24	N91-27244 *
US-PATENT-4,863,118	c 05	N90-20079 *	US-PATENT-4,957,661	c 24	N91-15320 *	US-PATENT-5,038,089	c 63	N91-31885 *
US-PATENT-4,863,553	c 76	N90-20896 *	US-PATENT-4,959,084	c 45	N91-14662 *	US-PATENT-5,038,473	c 37	N91-31655 *
US-PATENT-4,864,050	c 23	N90-20133 *	US-PATENT-4,959,656	c 04	N91-14321 *	US-PATENT-5,038,693	c 24	N91-31236 *
US-PATENT-4,864,865	c 37	N90-20409 *	US-PATENT-4,962,330	c 71	N91-14808 *	US-PATENT-5,040,886	c 74	N92-16810 *
US-PATENT-4,864,910	c 37	N90-21390 *	US-PATENT-4,963,052	c 37	N91-14614 *	US-PATENT-5,041,881	c 33	N92-16917 *
US-PATENT-4,865,114	c 31	N90-21216 *	US-PATENT-4,964,300	c 19	N91-14412 *	US-PATENT-5,044,063	c 37	N91-31656 *
US-PATENT-4,867,394	c 05	N90-20078 *	US-PATENT-4,964,303	c 71	N91-14807 *	US-PATENT-5,046,395	c 37	N91-32498 *
US-PATENT-4,868,818	c 60	N90-21527 *	US-PATENT-4,964,453	c 26	N91-14462 *	US-PATENT-5,047,686	c 74	N91-31950 *
US-PATENT-4,873,498	c 33	N90-23635 *	US-PATENT-4,964,722	c 35	N91-15512 *	US-PATENT-5,047,700	c 33	N91-31528 *
US-PATENT-4,873,990	c 35	N90-23706 *	US-PATENT-4,965,429	c 31	N91-14508 *	US-PATENT-5,047,9421-CU	c 04	N91-31120 *
US-PATENT-4,877,082	c 31	N90-23587 *	US-PATENT-4,965,743	c 61	N91-14741 *	US-PATENT-5,048,023	c 80	N91-31810 *
US-PATENT-4,877,689	c 24	N90-23480 *	US-PATENT-4,966,823	c 33	N91-14536 *	US-PATENT-5,048,973	c 35	N91-31608 *
US-PATENT-4,879,446	c 31	N90-23586 *	US-PATENT-4,971,139	c 34	N91-21473 *	US-PATENT-5,049,492	c 51	N91-31755 *
US-PATENT-4,883,116	c 27	N90-23541 *	US-PATENT-4,971,474	c 37	N91-14610 *	US-PATENT-5,049,539	c 33	N91-31529 *
US-PATENT-4,885,116	c 25	N90-23497 *	US-PATENT-4,973,840	c 35	N91-14587 *	US-PATENT-5,050,789	c 31	N91-31476 *
US-PATENT-4,886,896	c 23	N90-23475 *	US-PATENT-4,973,914	c 33	N91-14550 *	US-PATENT-5,050,819	c 05	N91-31140 *
US-PATENT-4,889,912	c 27	N90-23545 *	US-PATENT-4,973,936	c 33	N91-14537 *	US-PATENT-5,051,559	c 37	N91-32508 *
US-PATENT-4,890,252	c 33	N90-23636 *	US-PATENT-4,974,181	c 17	N91-14371 *	US-PATENT-5,052,807	c 74	N91-32922 *
US-PATENT-4,890,915	c 76	N90-24150 *	US-PATENT-4,974,230	c 36	N91-15528 *	US-PATENT-5,052,817	c 25	N91-32196 *
US-PATENT-4,891,591	c 27	N90-23544 *	US-PATENT-4,975,672	c 33	N91-14539 *	US-PATENT-5,053,778	c 43	N91-32546 *
US-PATENT-4,894,554	c 37	N90-23742 *	US-PATENT-4,975,704	c 43	N91-14642 *	US-PATENT-5,054,287	c 20	N92-10054 *
US-PATENT-4,895,430	c 35	N91-14590 *	US-PATENT-4,977,395	c 37	N91-14607 *	US-PATENT-5,055,240	c 31	N91-32240 *
US-PATENT-4,895,915	c 23	N91-14418 *	US-PATENT-4,980,126	c 24	N91-17145 *	US-PATENT-5,056,037	c 62	N91-32852 *
US-PATENT-4,895,972	c 27	N90-23546 *	US-PATENT-4,980,626	c 37	N91-21542 *	US-PATENT-5,056,156	c 27	N92-10091 *
US-PATENT-4,896,533	c 35	N90-23707 *	US-PATENT-4,980,636	c 33	N91-14552 *	US-PATENT-5,056,361	c 35	N92-10185 *
US-PATENT-4,899,356	c 38	N90-23756 *	US-PATENT-4,981,345	c 37	N91-21545 *	US-PATENT-5,057,338	c 24	N92-10070 *
US-PATENT-4,902,354	c 09	N90-23415 *	US-PATENT-4,984,457	c 35	N91-21495 *	US-PATENT-5,057,473	c 25	N92-10073 *
US-PATENT-4,902,450	c 34	N90-23700 *	US-PATENT-4,986,132	c 37	N91-21540 *	US-PATENT-5,057,917	c 32	N92-10128 *
US-PATENT-4,902,647	c 72	N91-14813 *	US-PATENT-4,987,339	c 76	N91-21911 *	US-PATENT-5,058,281	c 35	N92-10186 *
US-PATENT-4,902,769	c 23	N91-27220 *	US-PATENT-4,988,623	c 51	N91-21700 *	US-PATENT-5,058,506	c 37	N91-32514 *
US-PATENT-4,904,538	c 24	N90-23493 *	US-PATENT-4,989,497	c 35	N91-21494 *	US-PATENT-5,058,591	c 52	N92-11621 *
US-PATENT-4,907,233	c 17	N90-21061 *	US-PATENT-4,990,312	c 09	N91-21157 *	US-PATENT-5,058,929	c 37	N92-10197 *
US-PATENT-4,909,133	c 37	N90-22042 *	US-PATENT-4,990,739	c 75	N91-25875 *	US-PATENT-5,059,409	c 27	N92-10090 *
US-PATENT-4,909,313	c 34	N90-21999 *	US-PATENT-4,990,922	c 43	N91-21621 *	US-PATENT-5,059,581	c 76	N92-10681 *
US-PATENT-4,909,436	c 35	N91-21496 *	US-PATENT-4,990,988	c 33	N91-21434 *	US-PATENT-5,061,112	c 31	N92-16161 *
US-PATENT-4,909,933	c 29	N90-21209 *	US-PATENT-4,991,181	c 25	N91-21270 *	US-PATENT-5,061,783	c 25	N92-16043 *
US-PATENT-4,910,233	c 27	N90-21198 *	US-PATENT-4,991,788	c 18	N91-21222 *	US-PATENT-5,062,693	c 74	N92-16808 *
US-PATENT-4,910,396	c 74	N90-22383 *	US-PATENT-4,995,272	c 14	N91-21176 *	US-PATENT-5,062,694	c 36	N92-16290 *
US-PATENT-4,911,062	c 24	N90-21822 *	US-PATENT-4,995,697	c 74	N91-21871 *	US-PATENT-5,063,734	c 20	N92-15122 *
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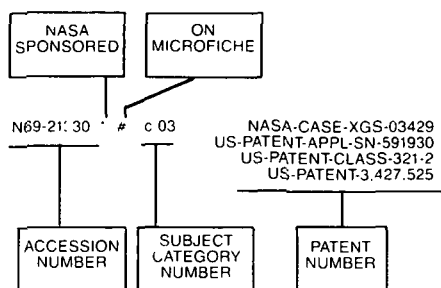
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Section 2

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		US-PATENT-3,120,101			US-PATENT-APPL-SN-33398			US-PATENT-APPL-SN-327565
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		US-PATENT-APPL-SN-249540			US-PATENT-APPL-SN-173981			US-PATENT-3,169,001
		US-PATENT-CLASS-188-1			US-PATENT-CLASS-324-33	N70-36845*	c 31	NASA-CASE-XMF-02108
		US-PATENT-3,164,222			US-PATENT-3,171,081			US-PATENT-APPL-SN-372727
N70-34946*	c 06	NASA-CASE-XNP-00733	N70-35679* #	c 15	NASA-CASE-MS-12279-1			US-PATENT-CLASS-244-100
		US-PATENT-APPL-SN-256484			US-PATENT-APPL-SN-24154			US-PATENT-3,181,821
		US-PATENT-CLASS-62-15	N70-36400*	c 18	NASA-CASE-XMS-00259	N70-36846*	c 33	NASA-CASE-XLA-00189
		US-PATENT-3,192,730			US-PATENT-APPL-SN-145007			US-PATENT-APPL-SN-223003
N70-34966*	c 31	NASA-CASE-XFR-00929			US-PATENT-CLASS-117-69			US-PATENT-CLASS-102-49
		US-PATENT-APPL-SN-290868			US-PATENT-3,157,529			US-PATENT-3,180,264
		US-PATENT-CLASS-35-12	N70-36409*	c 15	NASA-CASE-XLA-00482	N70-36847*	c 33	NASA-CASE-XNP-00463
		US-PATENT-3,191,316			US-PATENT-APPL-SN-166970			US-PATENT-APPL-SN-259487
N70-34967*	c 15	NASA-CASE-XNP-00595			US-PATENT-CLASS-29-423			US-PATENT-CLASS-165-96
		US-PATENT-APPL-SN-188594			US-PATENT-3,160,950			US-PATENT-3,177,933
		US-PATENT-CLASS-204-298	N70-36410*	c 31	NASA-CASE-XMF-00641	N70-36901*	c 15	NASA-CASE-XFR-00811
		US-PATENT-3,189,535			US-PATENT-APPL-SN-221945			US-PATENT-APPL-SN-257346
N70-35087*	c 15	NASA-CASE-XGS-00587			US-PATENT-CLASS-244-1			US-PATENT-CLASS-29-234
		US-PATENT-APPL-SN-313135			US-PATENT-3,158,336	N70-36907*	c 14	US-PATENT-3,166,834
		US-PATENT-CLASS-137-340	N70-36411*	c 15	NASA-CASE-XLE-00164			NASA-CASE-XNP-00614
		US-PATENT-3,211,169			US-PATENT-APPL-SN-107870			US-PATENT-APPL-SN-247419
N70-35089*	c 21	NASA-CASE-XNP-00438			US-PATENT-CLASS-60-39.66			US-PATENT-CLASS-33-1
		US-PATENT-APPL-SN-180381			US-PATENT-3,162,012	N70-36908*	c 15	US-PATENT-3,163,935
		US-PATENT-CLASS-250-203	N70-36412*	c 15	NASA-CASE-XLE-00170			NASA-CASE-XNP-00214
		US-PATENT-3,205,362			US-PATENT-APPL-SN-232914			US-PATENT-APPL-SN-180377
N70-35152*	c 05	NASA-CASE-XMS-01240			US-PATENT-CLASS-253-66			US-PATENT-CLASS-137-625.69
		US-PATENT-APPL-SN-331324			US-PATENT-3,164,369			US-PATENT-3,140,728
		US-PATENT-CLASS-297-216	N70-36492*	c 15	NASA-CASE-XLE-00397	N70-36910*	c 28	NASA-CASE-XNP-00610
		US-PATENT-3,165,356			US-PATENT-APPL-SN-195346			US-PATENT-APPL-SN-211464
N70-35219*	c 09	NASA-CASE-XNP-00611			US-PATENT-CLASS-137-614			US-PATENT-CLASS-60-35.6
		US-PATENT-APPL-SN-140443			US-PATENT-3,170,486			US-PATENT-3,170,290
		US-PATENT-CLASS-343-781	N70-36493*	c 05	NASA-CASE-XMS-00864	N70-36911*	c 07	NASA-CASE-XNP-00748
		US-PATENT-3,209,360			US-PATENT-APPL-SN-258932			US-PATENT-APPL-SN-184649
N70-35220*	c 14	NASA-CASE-XNP-00449			US-PATENT-CLASS-9-316			US-PATENT-CLASS-343-17.2
		US-PATENT-APPL-SN-118169			US-PATENT-3,152,344	N70-36913*	c 11	US-PATENT-3,183,506
		US-PATENT-CLASS-330-49	N70-36494*	c 09	NASA-CASE-XMF-00369			NASA-CASE-XMF-00411
		US-PATENT-3,160,825			US-PATENT-APPL-SN-134782			US-PATENT-APPL-SN-158914
N70-35368*	c 14	NASA-CASE-XLE-00335			US-PATENT-CLASS-339-176			US-PATENT-CLASS-73-147
		US-PATENT-APPL-SN-197554			US-PATENT-3,149,897			US-PATENT-3,182,496
		US-PATENT-CLASS-73-15.6	N70-36535*	c 15	NASA-CASE-XLE-00303	N70-36938*	c 21	NASA-CASE-XNP-00294
		US-PATENT-3,176,499			US-PATENT-APPL-SN-182692			US-PATENT-APPL-SN-182696
N70-35381*	c 28	NASA-CASE-XHQ-01897			US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-129579			US-PATENT-3,170,286			US-PATENT-3,178,883
		US-PATENT-CLASS-60-35.6	N70-36536*	c 32	NASA-CASE-XLA-00204	N70-36943*	c 21	NASA-CASE-XLA-00281
		US-PATENT-3,121,309			US-PATENT-APPL-SN-189648			US-PATENT-APPL-SN-84962
N70-35382*	c 09	NASA-CASE-XNP-00540			US-PATENT-CLASS-135-1			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-140509			US-PATENT-3,170,471			US-PATENT-3,180,587
		US-PATENT-CLASS-343-781	N70-36616*	c 17	NASA-CASE-XLE-00283	N70-36946*	c 25	NASA-CASE-XLA-01354
		US-PATENT-3,212,096			US-PATENT-APPL-SN-107866			US-PATENT-APPL-SN-253774
N70-35383*	c 11	NASA-CASE-XMF-00580			US-PATENT-CLASS-75-171			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-343425			US-PATENT-3,167,426			US-PATENT-3,174,278
		US-PATENT-CLASS-248-119	N70-36617*	c 33	NASA-CASE-XLA-01291	N70-36947*	c 15	NASA-CASE-XNP-00416
		US-PATENT-3,194,525			US-PATENT-APPL-SN-277961			US-PATENT-APPL-SN-180395
N70-35394*	c 14	NASA-CASE-XNP-00708			US-PATENT-CLASS-244-1			US-PATENT-CLASS-189-36
		US-PATENT-APPL-SN-281069			US-PATENT-3,176,933			US-PATENT-3,169,613
		US-PATENT-CLASS-35-45	N70-36618*	c 14	NASA-CASE-XLE-00143	N70-37245*	c 28	NASA-CASE-XLE-00376
		US-PATENT-3,196,558			US-PATENT-APPL-SN-104187			US-PATENT-APPL-SN-139007
N70-35395*	c 21	NASA-CASE-XNP-00465			US-PATENT-CLASS-324-61			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-180379			US-PATENT-3,176,222			US-PATENT-3,156,090
		US-PATENT-CLASS-244-1	N70-36654*	c 31	NASA-CASE-XMF-02853	N70-37924*	c 31	NASA-CASE-XGS-00260
		US-PATENT-3,206,141			US-PATENT-APPL-SN-360182			US-PATENT-APPL-SN-187446
N70-35407*	c 15	NASA-CASE-XLE-00815			US-PATENT-CLASS-244-100			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-300712			US-PATENT-3,175,789			US-PATENT-3,090,580
		US-PATENT-CLASS-251-11	N70-36778*	c 03	NASA-CASE-XLA-00838	N70-37925*	c 15	NASA-CASE-XLA-00128
		US-PATENT-3,211,414			US-PATENT-APPL-SN-192016			US-PATENT-APPL-SN-32496
N70-35408*	c 03	NASA-CASE-XGS-01593			US-PATENT-CLASS-9-8			US-PATENT-CLASS-73-384

N70-37938*	c 31	US-PATENT-3,093,000 NASA-CASE-XLA-00149 US-PATENT-APPL-SN-847023 US-PATENT-CLASS-244-1 US-PATENT-3,093,346	N70-38601*	c 15	US-PATENT-3,135,090 NASA-CASE-XLA-00679 US-PATENT-APPL-SN-213836 US-PATENT-CLASS-188-1 US-PATENT-3,128,845	N70-39925*	c 28	US-PATENT-3,229,884 NASA-CASE-XLE-00680 US-PATENT-APPL-SN-231604 US-PATENT-CLASS-313-11.5 US-PATENT-3,229,139
N70-37939*	c 02	NASA-CASE-XLE-00222 US-PATENT-APPL-SN-77252 US-PATENT-CLASS-244-113 US-PATENT-3,098,630	N70-38602*	c 14	NASA-CASE-XLE-00243 US-PATENT-APPL-SN-118203 US-PATENT-CLASS-324-106 US-PATENT-3,202,915	N70-39930*	c 03	NASA-CASE-XLA-00791 US-PATENT-APPL-SN-347960 US-PATENT-CLASS-102-49 US-PATENT-3,229,636
N70-37979*	c 33	NASA-CASE-XLA-00349 US-PATENT-APPL-SN-141220 US-PATENT-CLASS-62-467 US-PATENT-3,090,212	N70-38603*	c 15	NASA-CASE-XNP-00450 US-PATENT-APPL-SN-180394 US-PATENT-CLASS-137-495 US-PATENT-3,105,515	N70-39931*	c 28	NASA-CASE-XNP-01104 US-PATENT-APPL-SN-290867 US-PATENT-CLASS-60-39.48 US-PATENT-3,229,463
N70-37980*	c 28	NASA-CASE-XLE-00342 US-PATENT-APPL-SN-60531 US-PATENT-CLASS-60-35.5 US-PATENT-3,119,232	N70-38604*	c 09	NASA-CASE-XGS-00458 US-PATENT-APPL-SN-139006 US-PATENT-CLASS-307-88 US-PATENT-3,128,389	N70-40003*	c 14	NASA-CASE-XGS-01036 US-PATENT-APPL-SN-227692 US-PATENT-CLASS-88-14 US-PATENT-3,229,568
N70-37981*	c 31	NASA-CASE-XLA-00138 US-PATENT-APPL-SN-8204 US-PATENT-CLASS-343-18 US-PATENT-3,115,630	N70-38620*	c 15	NASA-CASE-XNP-00476 US-PATENT-APPL-SN-182698 US-PATENT-CLASS-308-9 US-PATENT-3,132,903	N70-40015*	c 26	NASA-CASE-XLA-02057 US-PATENT-APPL-SN-320595 US-PATENT-CLASS-23-277 US-PATENT-3,230,053
N70-37986*	c 31	NASA-CASE-XLA-00241 US-PATENT-APPL-SN-61329 US-PATENT-CLASS-244-1 US-PATENT-3,104,079	N70-38645*	c 28	NASA-CASE-XNP-00234 US-PATENT-APPL-SN-180382 US-PATENT-CLASS-60-35.54 US-PATENT-3,139,725	N70-40016*	c 30	NASA-CASE-XGS-00619 US-PATENT-APPL-SN-264728 US-PATENT-CLASS-244-1 US-PATENT-3,229,930
N70-38009*	c 02	NASA-CASE-XLA-00195 US-PATENT-APPL-SN-60536 US-PATENT-CLASS-244-140 US-PATENT-3,079,113	N70-38675*	c 11	NASA-CASE-XNP-00459 US-PATENT-APPL-SN-180388 US-PATENT-CLASS-73-432 US-PATENT-3,187,583	N70-40062*	c 15	NASA-CASE-XMS-01624 US-PATENT-APPL-SN-422867 US-PATENT-CLASS-55-408 US-PATENT-3,224,173
N70-38010*	c 31	NASA-CASE-XLA-00805 US-PATENT-APPL-SN-181829 US-PATENT-CLASS-244-46 US-PATENT-3,120,361	N70-38676*	c 31	NASA-CASE-XLA-00258 US-PATENT-APPL-SN-101029 US-PATENT-CLASS-244-1 US-PATENT-3,144,219	N70-40063*	c 07	NASA-CASE-XMS-00893 US-PATENT-APPL-SN-251449 US-PATENT-CLASS-343-18 US-PATENT-3,224,001
N70-38011*	c 02	NASA-CASE-XLA-00350 US-PATENT-APPL-SN-153266 US-PATENT-CLASS-244-46 US-PATENT-3,104,082	N70-38710*	c 28	NASA-CASE-XMF-00148 US-PATENT-APPL-SN-118202 US-PATENT-CLASS-60-35.6 US-PATENT-3,122,885	N70-40123*	c 09	NASA-CASE-XGS-01881 US-PATENT-APPL-SN-155584 US-PATENT-CLASS-324-43 US-PATENT-3,218,547
N70-38020*	c 15	NASA-CASE-XLE-00345 US-PATENT-APPL-SN-183978 US-PATENT-CLASS-62-55 US-PATENT-3,122,000	N70-38711*	c 28	NASA-CASE-XLE-00057 US-PATENT-APPL-SN-0914 US-PATENT-CLASS-60-35.55 US-PATENT-3,080,711	N70-40124*	c 12	NASA-CASE-XLE-01512 US-PATENT-APPL-SN-315096 US-PATENT-CLASS-149-2 US-PATENT-3,215,572
N70-38181*	c 28	NASA-CASE-XNP-00217 US-PATENT-APPL-SN-180374 US-PATENT-CLASS-102-49 US-PATENT-3,122,098	N70-38712*	c 09	NASA-CASE-XMF-01129 US-PATENT-APPL-SN-273534 US-PATENT-CLASS-318-260 US-PATENT-3,147,422	N70-40125*	c 08	NASA-CASE-XAC-00404 US-PATENT-APPL-SN-209801 US-PATENT-CLASS-340-347 US-PATENT-3,216,007
N70-38182*	c 11	NASA-CASE-XNP-00612 US-PATENT-APPL-SN-228507 US-PATENT-CLASS-220-63 US-PATENT-3,123,248	N70-38713*	c 03	NASA-CASE-XGS-00473 US-PATENT-APPL-SN-139012 US-PATENT-CLASS-200-39 US-PATENT-3,141,932	N70-40156*	c 15	NASA-CASE-XLA-01019 US-PATENT-APPL-SN-282817 US-PATENT-CLASS-248-358 US-PATENT-3,223,374
N70-38196*	c 11	NASA-CASE-XMF-00424 US-PATENT-APPL-SN-159804 US-PATENT-CLASS-73-517 US-PATENT-3,141,340	N70-38995*	c 09	NASA-CASE-XGS-00131 US-PATENT-APPL-SN-14486 US-PATENT-CLASS-331-113 US-PATENT-3,150,329	N70-40157*	c 14	NASA-CASE-XLA-00487 US-PATENT-APPL-SN-236748 US-PATENT-CLASS-73-178 US-PATENT-3,221,549
N70-38197*	c 28	NASA-CASE-XLE-00455 US-PATENT-APPL-SN-203409 US-PATENT-CLASS-75-222 US-PATENT-3,141,769	N70-38996*	c 15	NASA-CASE-XNP-00676 US-PATENT-APPL-SN-290870 US-PATENT-CLASS-222-389 US-PATENT-3,170,605	N70-40180*	c 15	NASA-CASE-XAC-00472 US-PATENT-APPL-SN-236749 US-PATENT-CLASS-73-142 US-PATENT-3,224,263
N70-38198*	c 17	NASA-CASE-XLE-00231 US-PATENT-APPL-SN-64226 US-PATENT-CLASS-22-203 US-PATENT-3,138,837	N70-38997*	c 12	NASA-CASE-XMF-00658 US-PATENT-APPL-SN-216710 US-PATENT-CLASS-137-1 US-PATENT-3,110,318	N70-40201*	c 14	NASA-CASE-XLE-00720 US-PATENT-APPL-SN-302749 US-PATENT-CLASS-73-134 US-PATENT-3,221,547
N70-38199*	c 28	NASA-CASE-XLE-00111 US-PATENT-APPL-SN-835152 US-PATENT-CLASS-60-39.48 US-PATENT-3,136,123	N70-38998*	c 09	NASA-CASE-XNP-00431 US-PATENT-APPL-SN-180380 US-PATENT-CLASS-340-147 US-PATENT-3,100,294	N70-40202*	c 07	NASA-CASE-XMF-00437 US-PATENT-APPL-SN-120795 US-PATENT-CLASS-343-705 US-PATENT-3,077,599
N70-38200*	c 07	NASA-CASE-XLA-00414 US-PATENT-APPL-SN-209478 US-PATENT-CLASS-343-705 US-PATENT-3,132,342	N70-39895*	c 28	NASA-CASE-XLE-00085 US-PATENT-APPL-SN-25175 US-PATENT-CLASS-253-66 US-PATENT-3,070,349	N70-40203*	c 14	NASA-CASE-XLE-00702 US-PATENT-APPL-SN-258931 US-PATENT-CLASS-73-116 US-PATENT-3,201,980
N70-38201*	c 09	NASA-CASE-XNP-00738 US-PATENT-APPL-SN-204015 US-PATENT-CLASS-174-115 US-PATENT-3,106,603	N70-39896*	c 15	NASA-CASE-XMF-00339 US-PATENT-APPL-SN-110591 US-PATENT-CLASS-308-9 US-PATENT-3,070,407	N70-40204*	c 15	NASA-CASE-XMF-00722 US-PATENT-APPL-SN-347626 US-PATENT-CLASS-228-50 US-PATENT-3,219,250
N70-38202*	c 11	NASA-CASE-XNP-00425 US-PATENT-APPL-SN-180396 US-PATENT-CLASS-89-1.7 US-PATENT-3,112,672	N70-39897*	c 18	NASA-CASE-XLE-00353 US-PATENT-APPL-SN-65548 US-PATENT-CLASS-252-58 US-PATENT-3,072,574	N70-40233*	c 14	NASA-CASE-XMS-01546 US-PATENT-APPL-SN-386467 US-PATENT-CLASS-222-45 US-PATENT-3,228,558
N70-38225*	c 15	NASA-CASE-XNP-00840 US-PATENT-APPL-SN-269222 US-PATENT-CLASS-267-1 US-PATENT-3,127,157	N70-39898*	c 14	NASA-CASE-XMF-00480 US-PATENT-APPL-SN-144804 US-PATENT-CLASS-248-346 US-PATENT-3,069,123	N70-40234*	c 09	NASA-CASE-XLE-01716 US-PATENT-APPL-SN-349778 US-PATENT-CLASS-126-270 US-PATENT-3,229,682
N70-38249*	c 28	NASA-CASE-XNP-00249 US-PATENT-APPL-SN-180391 US-PATENT-CLASS-60-35.6 US-PATENT-3,120,738	N70-39899*	c 28	NASA-CASE-XLE-00005 US-PATENT-APPL-SN-718095 US-PATENT-CLASS-60-35.6 US-PATENT-3,067,573	N70-40238*	c 14	NASA-CASE-XMF-00908 US-PATENT-APPL-SN-241085 US-PATENT-CLASS-250-201 US-PATENT-3,229,099
N70-38490*	c 17	NASA-CASE-XLE-00228 US-PATENT-APPL-SN-64224 US-PATENT-CLASS-29-183.5 US-PATENT-3,084,421	N70-39915*	c 09	NASA-CASE-XAC-00060 US-PATENT-APPL-SN-47121 US-PATENT-CLASS-200-19 US-PATENT-3,076,065	N70-40239*	c 14	NASA-CASE-XLA-00183 US-PATENT-APPL-SN-199202 US-PATENT-CLASS-250-203 US-PATENT-3,229,102
N70-38504*	c 28	NASA-CASE-XMS-00583 US-PATENT-APPL-SN-182699 US-PATENT-CLASS-60-35.6 US-PATENT-3,135,089	N70-39922*	c 05	NASA-CASE-XMS-01115 US-PATENT-APPL-SN-277404 US-PATENT-CLASS-128-29 US-PATENT-3,229,689	N70-40240*	c 14	NASA-CASE-XHQ-04106 US-PATENT-APPL-SN-91180 US-PATENT-CLASS-250-105 US-PATENT-3,143,651
N70-38505*	c 28	NASA-CASE-XLE-00323 US-PATENT-APPL-SN-183977 US-PATENT-CLASS-60-35.6	N70-39924*	c 15	NASA-CASE-XMF-00640 US-PATENT-APPL-SN-341467 US-PATENT-CLASS-228-50	N70-40272*	c 09	NASA-CASE-XMF-00701 US-PATENT-APPL-SN-261917 US-PATENT-CLASS-307-88.5

N70-40273*	c 14	US-PATENT-3,218,479 NASA-CASE-XNP-00637 US-PATENT-APPL-SN-280776 US-PATENT-CLASS-95-58 US-PATENT-3,217,624	N70-41580*	c 03	US-PATENT-3,295,556 NASA-CASE-XLA-04622 US-PATENT-APPL-SN-277833 US-PATENT-CLASS-126-270 US-PATENT-3,295,512	N70-41811*	c 15	US-PATENT-3,287,031 NASA-CASE-XNP-01152 US-PATENT-APPL-SN-369337 US-PATENT-CLASS-137-539 US-PATENT-3,302,662
N70-40309*	c 30	NASA-CASE-XLA-00210 US-PATENT-APPL-SN-82658 US-PATENT-CLASS-343-18 US-PATENT-3,220,004	N70-41581*	c 05	NASA-CASE-XAC-01404 US-PATENT-APPL-SN-363348 US-PATENT-CLASS-74-471 US-PATENT-3,295,386	N70-41812*	c 14	NASA-CASE-XMS-03792 US-PATENT-APPL-SN-516159 US-PATENT-CLASS-200-61.45 US-PATENT-3,303,304
N70-40353*	c 30	NASA-CASE-XMF-03198 US-PATENT-APPL-SN-370134 US-PATENT-CLASS-89-1.7 US-PATENT-3,224,336	N70-41582*	c 28	NASA-CASE-XMF-01813 US-PATENT-APPL-SN-375674 US-PATENT-CLASS-181-52 US-PATENT-3,270,835	N70-41818*	c 28	NASA-CASE-XLE-00150 US-PATENT-APPL-SN-843032 US-PATENT-CLASS-29-157.3 US-PATENT-3,035,333
N70-40354*	c 15	NASA-CASE-XMF-01045 US-PATENT-APPL-SN-355130 US-PATENT-CLASS-188-1 US-PATENT-3,228,492	N70-41583*	c 18	NASA-CASE-XMF-01030 US-PATENT-APPL-SN-317389 US-PATENT-CLASS-161-115 US-PATENT-3,296,060	N70-41819*	c 05	NASA-CASE-XAC-00405 US-PATENT-APPL-SN-158916 US-PATENT-CLASS-128-1 US-PATENT-3,302,633
N70-40367*	c 28	NASA-CASE-XLE-00177 US-PATENT-APPL-SN-10812 US-PATENT-CLASS-60-35.3 US-PATENT-3,045,424	N70-41588*	c 31	NASA-CASE-XMF-01973 US-PATENT-APPL-SN-375682 US-PATENT-CLASS-244-1 US-PATENT-3,295,790	N70-41829*	c 15	NASA-CASE-XMF-01371 US-PATENT-APPL-SN-353634 US-PATENT-CLASS-287-119 US-PATENT-3,302,960
N70-40400*	c 14	NASA-CASE-XAC-00648 US-PATENT-APPL-SN-216939 US-PATENT-CLASS-73-147 US-PATENT-3,218,850	N70-41589*	c 02	NASA-CASE-XMF-01174 US-PATENT-APPL-SN-410331 US-PATENT-CLASS-244-100 US-PATENT-3,295,798	N70-41855*	c 31	NASA-CASE-XNP-02982 US-PATENT-APPL-SN-388966 US-PATENT-CLASS-244-1 US-PATENT-3,304,028
N70-41275*	c 28	NASA-CASE-XNP-001390 US-PATENT-APPL-SN-424157 US-PATENT-CLASS-60-259 US-PATENT-3,300,981	N70-41628*	c 25	NASA-CASE-XAC-00319 US-PATENT-APPL-SN-77251 US-PATENT-CLASS-315-111 US-PATENT-3,229,155	N70-41856*	c 21	NASA-CASE-XNP-01307 US-PATENT-APPL-SN-390250 US-PATENT-CLASS-244-1 US-PATENT-3,286,953
N70-41297*	c 05	NASA-CASE-XMS-01492 US-PATENT-APPL-SN-398131 US-PATENT-CLASS-55-35 US-PATENT-3,300,949	N70-41629*	c 15	NASA-CASE-XGS-02441 US-PATENT-APPL-SN-411944 US-PATENT-CLASS-285-331 US-PATENT-3,301,578	N70-41863*	c 02	NASA-CASE-XLA-01220 US-PATENT-APPL-SN-379417 US-PATENT-CLASS-244-16 US-PATENT-3,286,957
N70-41310*	c 15	NASA-CASE-XNP-01567 US-PATENT-APPL-SN-448898 US-PATENT-CLASS-248-178 US-PATENT-3,295,808	N70-41630*	c 02	NASA-CASE-XMS-00907 US-PATENT-APPL-SN-428890 US-PATENT-CLASS-244-138 US-PATENT-3,301,511	N70-41864*	c 03	NASA-CASE-XGS-01419 US-PATENT-APPL-SN-323182 US-PATENT-CLASS-136-179 US-PATENT-3,287,174
N70-41311*	c 28	NASA-CASE-XNP-00876 US-PATENT-APPL-SN-377784 US-PATENT-CLASS-60-251 US-PATENT-3,298,182	N70-41631*	c 31	NASA-CASE-XMS-04142 US-PATENT-APPL-SN-422865 US-PATENT-CLASS-244-1 US-PATENT-3,301,507	N70-41871*	c 31	NASA-CASE-XMS-04390 US-PATENT-APPL-SN-502729 US-PATENT-CLASS-62-45 US-PATENT-3,304,729
N70-41329*	c 05	NASA-CASE-XMS-01615 US-PATENT-APPL-SN-329595 US-PATENT-CLASS-128-2.05 US-PATENT-3,298,362	N70-41646*	c 15	NASA-CASE-XLE-01449 US-PATENT-APPL-SN-330209 US-PATENT-CLASS-137-197 US-PATENT-3,295,545	N70-41897*	c 27	NASA-CASE-XNP-01749 US-PATENT-APPL-SN-440033 US-PATENT-CLASS-149-109 US-PATENT-3,305,415
N70-41330*	c 14	NASA-CASE-XLE-00688 US-PATENT-APPL-SN-334672 US-PATENT-CLASS-73-32 US-PATENT-3,298,221	N70-41647*	c 14	NASA-CASE-XGS-00769 US-PATENT-APPL-SN-319893 US-PATENT-CLASS-242-55.19 US-PATENT-3,295,782	N70-41922*	c 28	NASA-CASE-XNP-02839 US-PATENT-APPL-SN-477333 US-PATENT-CLASS-60-202 US-PATENT-3,304,718
N70-41331*	c 07	NASA-CASE-XLA-01400 US-PATENT-APPL-SN-363653 US-PATENT-CLASS-325-65 US-PATENT-3,296,531	N70-41655*	c 09	NASA-CASE-XMF-00906 US-PATENT-APPL-SN-264731 US-PATENT-CLASS-324-113 US-PATENT-3,287,640	N70-41929*	c 09	NASA-CASE-XNP-01951 US-PATENT-APPL-SN-413662 US-PATENT-CLASS-335-300 US-PATENT-3,305,810
N70-41332*	c 14	NASA-CASE-XLA-00495 US-PATENT-APPL-SN-269215 US-PATENT-CLASS-324-70 US-PATENT-3,296,526	N70-41675*	c 09	NASA-CASE-XMS-01315 US-PATENT-APPL-SN-347101 US-PATENT-CLASS-307-88.5 US-PATENT-3,302,040	N70-41930*	c 21	NASA-CASE-XNP-01501 US-PATENT-APPL-SN-432027 US-PATENT-CLASS-343-12 US-PATENT-3,305,861
N70-41366*	c 14	NASA-CASE-XLA-01353 US-PATENT-APPL-SN-403960 US-PATENT-CLASS-73-147 US-PATENT-3,301,046	N70-41676*	c 14	NASA-CASE-XGS-01231 US-PATENT-APPL-SN-346356 US-PATENT-CLASS-250-71 US-PATENT-3,302,023	N70-41946*	c 14	NASA-CASE-XLE-00011 US-PATENT-APPL-SN-735911 US-PATENT-CLASS-88-14 US-PATENT-2,960,002
N70-41367*	c 32	NASA-CASE-XGS-00938 US-PATENT-APPL-SN-392970 US-PATENT-CLASS-214-1 US-PATENT-3,295,699	N70-41677*	c 11	NASA-CASE-XMF-01772 US-PATENT-APPL-SN-370135 US-PATENT-CLASS-73-116 US-PATENT-3,295,366	N70-41948*	c 31	NASA-CASE-XMF-01899 US-PATENT-APPL-SN-428882 US-PATENT-CLASS-60-257 US-PATENT-3,304,724
N70-41370*	c 32	NASA-CASE-XNP-01962 US-PATENT-APPL-SN-369640 US-PATENT-CLASS-92-94 US-PATENT-3,298,285	N70-41678*	c 07	NASA-CASE-XGS-02608 US-PATENT-APPL-SN-456578 US-PATENT-CLASS-343-18 US-PATENT-3,289,205	N70-41954*	c 03	NASA-CASE-XAC-03392 US-PATENT-APPL-SN-430776 US-PATENT-CLASS-74-519 US-PATENT-3,304,799
N70-41371*	c 15	NASA-CASE-XMF-01452 US-PATENT-APPL-SN-356692 US-PATENT-CLASS-29-271 US-PATENT-3,300,847	N70-41679*	c 15	NASA-CASE-XLA-01441 US-PATENT-APPL-SN-516151 US-PATENT-CLASS-102-49 US-PATENT-3,302,569	N70-41955*	c 14	NASA-CASE-XNP-02029 US-PATENT-APPL-SN-221276 US-PATENT-CLASS-88-14 US-PATENT-3,323,408
N70-41372*	c 07	NASA-CASE-XLA-01127 US-PATENT-APPL-SN-363654 US-PATENT-CLASS-325-65 US-PATENT-3,300,731	N70-41680*	c 07	NASA-CASE-XNP-02723 US-PATENT-APPL-SN-371857 US-PATENT-CLASS-343-14 US-PATENT-3,287,725	N70-41957*	c 14	NASA-CASE-XAC-01101 US-PATENT-APPL-SN-355129 US-PATENT-CLASS-73-141 US-PATENT-3,304,773
N70-41373*	c 31	NASA-CASE-XMS-01906 US-PATENT-APPL-SN-339040 US-PATENT-CLASS-244-1 US-PATENT-3,300,162	N70-41681*	c 14	NASA-CASE-XAC-02877 US-PATENT-APPL-SN-449902 US-PATENT-CLASS-73-30 US-PATENT-3,295,360	N70-41960*	c 15	NASA-CASE-XNP-05082 US-PATENT-APPL-SN-521753 US-PATENT-CLASS-174-68.5 US-PATENT-3,321,570
N70-41447*	c 28	NASA-CASE-XNP-00732 US-PATENT-APPL-SN-261918 US-PATENT-CLASS-210-314 US-PATENT-3,295,684	N70-41682*	c 14	NASA-CASE-XMS-05936 US-PATENT-APPL-SN-557868 US-PATENT-CLASS-73-517 US-PATENT-3,295,377	N70-41961*	c 08	NASA-CASE-XNP-00911 US-PATENT-APPL-SN-280777 US-PATENT-CLASS-178-67 US-PATENT-3,305,636
N70-41576*	c 28	NASA-CASE-XLE-00519 US-PATENT-APPL-SN-249542 US-PATENT-CLASS-313-63 US-PATENT-3,287,582	N70-41717*	c 09	NASA-CASE-XMS-02087 US-PATENT-APPL-SN-439489 US-PATENT-CLASS-165-1 US-PATENT-3,301,315	N70-41964*	c 10	NASA-CASE-XGS-01983 US-PATENT-APPL-SN-388023 US-PATENT-CLASS-333-79 US-PATENT-3,305,801
N70-41578*	c 16	NASA-CASE-XGS-01504 US-PATENT-APPL-SN-340113 US-PATENT-CLASS-331-94 US-PATENT-3,287,660	N70-41807*	c 14	NASA-CASE-XNP-01472 US-PATENT-APPL-SN-321656 US-PATENT-CLASS-178-7.2 US-PATENT-3,287,496	N70-41967*	c 28	NASA-CASE-XLA-02651 US-PATENT-APPL-SN-449901 US-PATENT-CLASS-102-49 US-PATENT-3,304,865
N70-41579*	c 32	NASA-CASE-XLE-00620 US-PATENT-APPL-SN-304698 US-PATENT-CLASS-138-119	N70-41808*	c 15	NASA-CASE-XMS-02532 US-PATENT-APPL-SN-398132 US-PATENT-CLASS-285-27	N70-41991*	c 10	NASA-CASE-XNP-03128 US-PATENT-APPL-SN-397665 US-PATENT-CLASS-250-83.6

N70-41992*	c 28	US-PATENT-3,321,628	N71-10616*	c 14	US-PATENT-3,311,315	N71-10781*	c 14	US-PATENT-3,316,716
		NASA-CASE-XLE-00685			NASA-CASE-XMF-02433			NASA-CASE-XLE-01481
		US-PATENT-APPL-SN-407595			US-PATENT-APPL-SN-405630			US-PATENT-APPL-SN-319905
N70-41993*	c 15	US-PATENT-CLASS-60-260	N71-10617*	c 15	US-PATENT-CLASS-73-70.2	N71-10782*	c 15	US-PATENT-CLASS-73-99
		US-PATENT-3,321,922			US-PATENT-3,310,978			US-PATENT-3,282,091
		NASA-CASE-XLE-01300			NASA-CASE-XMF-01887			NASA-CASE-XKS-01985
N70-41994*	c 14	US-PATENT-APPL-SN-380960	N71-10618*	c 09	US-PATENT-APPL-SN-422868	N71-10797*	c 14	US-PATENT-APPL-SN-357337
		US-PATENT-CLASS-73-100			US-PATENT-CLASS-308-5			US-PATENT-CLASS-285-24
		US-PATENT-3,323,356			US-PATENT-3,325,229			US-PATENT-3,319,979
N70-42000*	c 05	US-PATENT-APPL-SN-403959	N71-10658*	c 15	US-PATENT-CLASS-313-63	N71-10798*	c 09	US-PATENT-CLASS-324-61
		US-PATENT-CLASS-73-194			US-PATENT-3,311,772			US-PATENT-3,324,388
		US-PATENT-3,323,362			NASA-CASE-XMS-03252			NASA-CASE-XMS-00945
N70-42003*	c 32	US-PATENT-APPL-SN-418931	N71-10659*	c 09	US-PATENT-APPL-SN-425362	N71-10799*	c 15	US-PATENT-APPL-SN-385530
		US-PATENT-CLASS-73-432			US-PATENT-CLASS-60-54.5			US-PATENT-CLASS-330-22
		US-PATENT-3,323,370			US-PATENT-3,318,093			US-PATENT-3,319,175
N70-42015*	c 31	NASA-CASE-XLA-02131	N71-10672*	c 15	NASA-CASE-XNP-01383	N71-10809*	c 15	NASA-CASE-XLA-01807
		US-PATENT-APPL-SN-377777			US-PATENT-APPL-SN-369336			US-PATENT-APPL-SN-442558
		US-PATENT-CLASS-73-90			US-PATENT-CLASS-324-77			US-PATENT-CLASS-287-189.36
N70-42016*	c 02	US-PATENT-3,304,768	N71-10673*	c 09	US-PATENT-3,317,832	N71-11037*	c 02	US-PATENT-3,318,622
		NASA-CASE-XLA-01967			NASA-CASE-XLA-01091			NASA-CASE-XMF-02107
		US-PATENT-APPL-SN-457875			US-PATENT-APPL-SN-351259			US-PATENT-APPL-SN-384811
N70-42017*	c 15	US-PATENT-CLASS-244-135	N71-10676*	c 07	US-PATENT-CLASS-264-102	N71-11038*	c 02	US-PATENT-CLASS-140-124
		US-PATENT-3,321,159			US-PATENT-3,317,641			US-PATENT-3,318,343
		NASA-CASE-XLA-01290			NASA-CASE-XGS-01473			NASA-CASE-XLA-06824.2
N70-42032*	c 10	US-PATENT-APPL-SN-393451	N71-10677*	c 09	US-PATENT-APPL-SN-364867	N71-11039*	c 02	US-PATENT-APPL-SN-775966
		US-PATENT-CLASS-244-42			US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-244-31
		US-PATENT-3,321,157			US-PATENT-3,317,751			US-PATENT-3,508,724
N70-42033*	c 15	NASA-CASE-XMS-04072	N71-10678*	c 21	NASA-CASE-XNP-03134	N71-11041* #	c 02	NASA-CASE-XLA-06958
		US-PATENT-APPL-SN-485960			US-PATENT-APPL-SN-422095			US-PATENT-APPL-SN-551815
		US-PATENT-CLASS-30-228			US-PATENT-CLASS-333-21			US-PATENT-CLASS-244-44
N70-42034*	c 15	US-PATENT-3,320,669	N71-10679*	c 09	US-PATENT-3,324,423	N71-11043*	c 02	US-PATENT-3,310,261
		NASA-CASE-XNP-02654			NASA-CASE-XGS-01451			NASA-CASE-MSC-12111-1
		US-PATENT-APPL-SN-435387			US-PATENT-APPL-SN-405629			US-PATENT-APPL-SN-775877
N70-42037*	c 10	US-PATENT-CLASS-307-88.5	N71-10678*	c 21	US-PATENT-CLASS-318-138	N71-11049*	c 03	US-PATENT-CLASS-244-23
		US-PATENT-3,321,645			US-PATENT-3,324,370			US-PATENT-3,490,721
		NASA-CASE-XNP-02092			NASA-CASE-XGS-01159			NASA-CASE-XLA-03659
N70-42038*	c 15	US-PATENT-APPL-SN-371856	N71-10728*	c 03	US-PATENT-APPL-SN-332313	N71-11043*	c 02	US-PATENT-APPL-SN-444087
		US-PATENT-CLASS-156-345			US-PATENT-CLASS-250-203			US-PATENT-CLASS-244-46
		US-PATENT-3,323,967			US-PATENT-3,311,748			US-PATENT-3,270,989
N70-42073*	c 15	NASA-CASE-XNP-01412	N71-10746*	c 11	NASA-CASE-XNP-01464	N71-11049*	c 03	NASA-CASE-XLA-08801-1
		US-PATENT-APPL-SN-426702			US-PATENT-APPL-SN-430778			US-PATENT-APPL-SN-710533
		US-PATENT-CLASS-175-310			US-PATENT-CLASS-136-182			US-PATENT-CLASS-244-43
N70-42074*	c 03	US-PATENT-3,321,034	N71-10747*	c 31	US-PATENT-3,317,352	N71-11050*	c 03	US-PATENT-3,493,197
		NASA-CASE-XFR-04104			NASA-CASE-XMS-02977			NASA-CASE-NPO-10109
		US-PATENT-APPL-SN-476759			US-PATENT-APPL-SN-416938			US-PATENT-APPL-SN-701654
N70-42075*	c 14	US-PATENT-CLASS-74-471	N71-10748*	c 11	US-PATENT-CLASS-35-12	N71-11052*	c 03	US-PATENT-CLASS-136-89
		US-PATENT-3,323,386			US-PATENT-3,281,963			US-PATENT-3,532,551
		NASA-CASE-XLE-02998			NASA-CASE-XMF-00442			NASA-CASE-XNP-06506
N71-10500*	c 14	US-PATENT-APPL-SN-516794	N71-10771*	c 21	US-PATENT-APPL-SN-202030	N71-11055*	c 03	US-PATENT-APPL-SN-577778
		US-PATENT-CLASS-116-117			US-PATENT-CLASS-343-705			US-PATENT-CLASS-136-89
		US-PATENT-3,323,484			US-PATENT-3,277,486			US-PATENT-3,446,676
N71-10560*	c 24	NASA-CASE-XMS-02677	N71-10772*	c 18	NASA-CASE-XFR-04147	N71-11055*	c 03	NASA-CASE-XNP-03378
		US-PATENT-APPL-SN-472066			US-PATENT-APPL-SN-476761			US-PATENT-APPL-SN-360878
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-35-12			US-PATENT-CLASS-136-170
N71-10574*	c 28	US-PATENT-3,321,154	N71-10773*	c 14	US-PATENT-3,281,961	N71-11057*	c 03	US-PATENT-3,282,740
		NASA-CASE-XLE-01609			NASA-CASE-XNP-03914			NASA-CASE-XLE-04526
		US-PATENT-APPL-SN-438797			US-PATENT-APPL-SN-468647			US-PATENT-APPL-SN-640457
N71-10577*	c 15	US-PATENT-CLASS-73-290	N71-10774*	c 14	US-PATENT-CLASS-250-203	N71-11058*	c 03	US-PATENT-CLASS-136-86
		US-PATENT-3,326,043			US-PATENT-3,317,731			US-PATENT-3,507,704
		NASA-CASE-XLE-00808			NASA-CASE-XLE-01765			NASA-CASE-XGS-00886
N71-10578*	c 24	US-PATENT-APPL-SN-307269	N71-10775*	c 07	US-PATENT-APPL-SN-316477	N71-11059*	c 03	US-PATENT-APPL-SN-319894
		US-PATENT-CLASS-148-188			US-PATENT-CLASS-117-65.2			US-PATENT-CLASS-136-132
		US-PATENT-3,310,443			US-PATENT-3,317,341			US-PATENT-3,282,739
N71-10582*	c 31	NASA-CASE-XLE-01902	N71-10776*	c 11	NASA-CASE-XLA-02605	N71-11060*	c 03	NASA-CASE-XMF-05843
		US-PATENT-APPL-SN-485656			US-PATENT-APPL-SN-459138			US-PATENT-APPL-SN-666553
		US-PATENT-CLASS-60-202			US-PATENT-CLASS-177-210			US-PATENT-CLASS-310-4
N71-10584*	c 28	US-PATENT-3,324,659	N71-10777*	c 11	US-PATENT-3,316,991	N71-11061*	c 03	US-PATENT-3,509,386
		NASA-CASE-XLE-04677			NASA-CASE-XLA-01131			NASA-CASE-XNP-05821
		US-PATENT-APPL-SN-447928			US-PATENT-APPL-SN-322545			US-PATENT-APPL-SN-545223
N71-10585*	c 15	US-PATENT-CLASS-220-67	N71-10778*	c 14	US-PATENT-CLASS-73-23	N71-11062*	c 03	US-PATENT-CLASS-136-89
		US-PATENT-3,326,407			US-PATENT-3,312,101			US-PATENT-3,493,437
		NASA-CASE-XMS-01554			NASA-CASE-XLA-00901			NASA-CASE-MSC-13112
N71-10586*	c 10	US-PATENT-APPL-SN-414482	N71-10779*	c 07	US-PATENT-APPL-SN-269212	N71-11063*	c 03	US-PATENT-APPL-SN-765738
		US-PATENT-CLASS-323-8			US-PATENT-CLASS-325-305			US-PATENT-CLASS-290-40
		US-PATENT-3,325,723			US-PATENT-3,311,832			US-PATENT-3,508,070
N71-10587*	c 31	NASA-CASE-XLA-02132	N71-10780*	c 15	NASA-CASE-XLA-01533	N71-11064*	c 05	NASA-CASE-XGS-01475
		US-PATENT-APPL-SN-453227			NASA-CASE-XLA-03127			US-PATENT-APPL-SN-344793
		US-PATENT-CLASS-102-49			US-PATENT-APPL-SN-447927			US-PATENT-CLASS-128-2.1
N71-10604*	c 11	US-PATENT-CLASS-128-49	N71-10781*	c 14	US-PATENT-CLASS-35-12	N71-11065*	c 05	US-PATENT-CLASS-244-1
		US-PATENT-3,286,630			US-PATENT-3,281,964			US-PATENT-3,459,391
		NASA-CASE-XMF-03248			NASA-CASE-XLE-01533			NASA-CASE-XFR-10856
N71-10607*	c 26	US-PATENT-APPL-SN-377780	N71-10782*	c 11	US-PATENT-APPL-SN-334678	N71-11066*	c 05	US-PATENT-APPL-SN-626376
		US-PATENT-CLASS-73-116			US-PATENT-CLASS-55-400			US-PATENT-3,534,727
		US-PATENT-3,310,980			US-PATENT-3,282,035			NASA-CASE-XMS-04935
N71-10608*	c 03	NASA-CASE-XLE-02792	N71-10783*	c 15	NASA-CASE-XNP-00710	N71-11067*	c 05	US-PATENT-APPL-SN-518487
		US-PATENT-APPL-SN-352400			US-PATENT-APPL-SN-271821			US-PATENT-CLASS-128-142.5
		US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-251-61			US-PATENT-3,502,074
N71-10609*	c 07	US-PATENT-3,311,510	N71-10784*	c 14	US-PATENT-3,317,180	N71-11068*	c 05	NASA-CASE-ARC-10043-1
		NASA-CASE-XGS-03505			NASA-CASE-XMF-02307			US-PATENT-APPL-SN-676012
		US-PATENT-APPL-SN-498167			US-PATENT-APPL-SN-422869			US-PATENT-CLASS-128-2.1
N71-10609*	c 07	US-PATENT-CLASS-136-28	N71-10785*	c 28	US-PATENT-CLASS-73-40.5	N71-11069*	c 05	US-PATENT-3,508,541
		US-PATENT-3,311,502			US-PATENT-3,316,752			NASA-CASE-XLA-05332
		NASA-CASE-XGS-01223			NASA-CASE-XLA-01043			US-PATENT-APPL-SN-757861
N71-10609*	c 07	US-PATENT-APPL-SN-319892	N71-10786*	c 28	US-PATENT-APPL-SN-379768	N71-11194*	c 05	US-PATENT-CLASS-2-2.1
		US-PATENT-CLASS-242-55.19			US-PATENT-CLASS-60-225			US-PATENT-3,534,407

N71-11195*	c 05	NASA-CASE-LAR-10007-1 US-PATENT-APPL-SN-770203 US-PATENT-CLASS-2-2.1 US-PATENT-3,534,406	N71-12258*	c 03	NASA-CASE-XLA-00711 US-PATENT-APPL-SN-357334 US-PATENT-CLASS-89-1.7 US-PATENT-3,249,012	N71-12506*	c 08	NASA-CASE-XNP-08832 US-PATENT-APPL-SN-681692 US-PATENT-CLASS-340-172.5 US-PATENT-3,535,696
N71-11199*	c 05	NASA-CASE-XKS-02342 US-PATENT-APPL-SN-407603 US-PATENT-CLASS-182-191 US-PATENT-3,262,518	N71-12259*	c 03	NASA-CASE-XLA-01396 US-PATENT-APPL-SN-357336 US-PATENT-CLASS-89-1.7 US-PATENT-3,249,013	N71-12507*	c 08	NASA-CASE-XLA-01952 US-PATENT-APPL-SN-676386 US-PATENT-CLASS-340-324 US-PATENT-3,537,096
N71-11202*	c 05	NASA-CASE-XFR-08403 US-PATENT-APPL-SN-704420 US-PATENT-CLASS-73-23 US-PATENT-3,507,146	N71-12260*	c 03	NASA-CASE-XNP-01020 US-PATENT-APPL-SN-430780 US-PATENT-CLASS-60-97 US-PATENT-3,238,730	N71-12513*	c 09	NASA-CASE-XGS-07801 US-PATENT-APPL-SN-640452 US-PATENT-CLASS-148-188 US-PATENT-3,490,965
N71-11203*	c 05	NASA-CASE-XMS-09632-1 US-PATENT-APPL-SN-791693 US-PATENT-CLASS-128-142.5 US-PATENT-3,500,827	N71-12335*	c 05	NASA-CASE-XMS-00784 US-PATENT-APPL-SN-358127 US-PATENT-CLASS-2-2.1 US-PATENT-3,286,274	N71-12514*	c 09	NASA-CASE-XLA-07497 US-PATENT-APPL-SN-631848 US-PATENT-CLASS-307-252 US-PATENT-3,491,255
N71-11207*	c 05	NASA-CASE-XLA-03213 US-PATENT-APPL-SN-621715 US-PATENT-CLASS-202-182 US-PATENT-3,444,051	N71-12336*	c 05	NASA-CASE-XMS-05304 US-PATENT-APPL-SN-511567 US-PATENT-CLASS-244-4 US-PATENT-3,270,986	N71-12515*	c 09	NASA-CASE-XNP-08836 US-PATENT-APPL-SN-668968 US-PATENT-CLASS-340-174 US-PATENT-3,535,702
N71-11235*	c 06	NASA-CASE-XLA-03104 US-PATENT-APPL-SN-510155 US-PATENT-CLASS-260-78 US-PATENT-3,518,232	N71-12341*	c 05	NASA-CASE-MFS-14671 US-PATENT-APPL-SN-723476 US-PATENT-CLASS-297-385 US-PATENT-3,516,711	N71-12516*	c 09	NASA-CASE-XNP-09768 US-PATENT-APPL-SN-698629 US-PATENT-CLASS-307-243 US-PATENT-3,535,554
N71-11236*	c 06	NASA-CASE-XMF-08651 US-PATENT-APPL-SN-593594 US-PATENT-CLASS-260-72.5 US-PATENT-3,526,611	N71-12342*	c 05	NASA-CASE-XAC-05706 US-PATENT-APPL-SN-592694 US-PATENT-CLASS-325-143 US-PATENT-3,453,546	N71-12517*	c 09	NASA-CASE-XAC-10608-1 US-PATENT-APPL-SN-710561 US-PATENT-CLASS-333-80 US-PATENT-3,493,901
N71-11237*	c 06	NASA-CASE-XMF-10753 US-PATENT-APPL-SN-668751 US-PATENT-CLASS-260-46.5 US-PATENT-3,444,127	N71-12343*	c 05	NASA-CASE-MS-11253 US-PATENT-APPL-SN-695973 US-PATENT-CLASS-297-68 US-PATENT-3,466,085	N71-12518*	c 09	NASA-CASE-XNP-09808 US-PATENT-APPL-SN-692471 US-PATENT-CLASS-200-61.42 US-PATENT-3,488,461
N71-11238*	c 06	NASA-CASE-XLA-08802 US-PATENT-APPL-SN-640454 US-PATENT-CLASS-260-78 US-PATENT-3,532,673	N71-12344*	c 05	NASA-CASE-XMS-09636 US-PATENT-APPL-SN-586330 US-PATENT-CLASS-2-2.1 US-PATENT-3,492,672	N71-12519*	c 09	NASA-CASE-XMF-06519 US-PATENT-APPL-SN-656952 US-PATENT-CLASS-328-110 US-PATENT-3,535,644
N71-11239*	c 06	NASA-CASE-XMF-08655 US-PATENT-APPL-SN-593593 US-PATENT-CLASS-260-72.5 US-PATENT-3,516,970	N71-12345*	c 05	NASA-CASE-MS-12086-1 US-PATENT-APPL-SN-812999 US-PATENT-CLASS-29-400 US-PATENT-3,490,130	N71-12520*	c 09	NASA-CASE-NPO-10230 US-PATENT-APPL-SN-691735 US-PATENT-CLASS-307-229 US-PATENT-3,535,547
N71-11240*	c 06	NASA-CASE-MFS-13994-1 US-PATENT-APPL-SN-715975 US-PATENT-CLASS-260-46.5 US-PATENT-3,516,964	N71-12346*	c 05	NASA-CASE-XMS-04212-1 US-PATENT-APPL-SN-607461 US-PATENT-CLASS-128-2.1 US-PATENT-3,490,440	N71-12521*	c 09	NASA-CASE-ARC-10030 US-PATENT-APPL-SN-679885 US-PATENT-CLASS-313-110 US-PATENT-3,493,805
N71-11242*	c 06	NASA-CASE-XMF-08656 US-PATENT-APPL-SN-593605 US-PATENT-CLASS-260-2.5 US-PATENT-3,493,524	N71-12351*	c 05	NASA-CASE-LAR-10056 US-PATENT-APPL-SN-674357 US-PATENT-CLASS-224-25 US-PATENT-3,493,153	N71-12526*	c 09	NASA-CASE-MS-12135-1 US-PATENT-APPL-SN-761404 US-PATENT-CLASS-317-31 US-PATENT-3,448,341
N71-11243*	c 06	NASA-CASE-XMF-08652 US-PATENT-APPL-SN-593606 US-PATENT-CLASS-260-2 US-PATENT-3,493,522	N71-12389*	c 07	NASA-CASE-XLA-01090 US-PATENT-APPL-SN-741824 US-PATENT-CLASS-250-199 US-PATENT-RE-26,548	N71-12539*	c 09	NASA-CASE-ERC-10552 US-PATENT-APPL-SN-720125 US-PATENT-CLASS-178-7.7 US-PATENT-3,535,446
N71-11266*	c 07	NASA-CASE-XLA-03076 US-PATENT-APPL-SN-591004 US-PATENT-CLASS-325-42 US-PATENT-3,508,152	N71-12390*	c 07	NASA-CASE-XER-09213 US-PATENT-APPL-SN-668302 US-PATENT-CLASS-332-9 US-PATENT-3,535,657	N71-12540*	c 09	NASA-CASE-XNP-01058 US-PATENT-APPL-SN-313136 US-PATENT-CLASS-315-160 US-PATENT-3,271,620
N71-11267*	c 07	NASA-CASE-XNP-10843 US-PATENT-APPL-SN-649358 US-PATENT-CLASS-325-363 US-PATENT-3,508,156	N71-12391*	c 07	NASA-CASE-XMS-05454-1 US-PATENT-APPL-SN-771803 US-PATENT-CLASS-343-17.7 US-PATENT-3,471,858	N71-12554*	c 10	NASA-CASE-NPO-10348 US-PATENT-APPL-SN-704668 US-PATENT-CLASS-324-95 US-PATENT-3,532,979
N71-11281*	c 07	NASA-CASE-XNP-10830 US-PATENT-APPL-SN-692332 US-PATENT-CLASS-178-69.5 US-PATENT-3,535,451	N71-12392*	c 07	NASA-CASE-XGS-01590 US-PATENT-APPL-SN-584067 US-PATENT-CLASS-178-88 US-PATENT-3,491,202	N71-13410*	c 01	NASA-CASE-XLA-00755 US-PATENT-APPL-SN-247423 US-PATENT-CLASS-244-35 US-PATENT-3,270,988
N71-11282*	c 07	NASA-CASE-XGS-02889 US-PATENT-APPL-SN-685748 US-PATENT-CLASS-329-104 US-PATENT-3,501,704	N71-12396*	c 07	NASA-CASE-GSC-10452 US-PATENT-APPL-SN-797794 US-PATENT-CLASS-343-776 US-PATENT-3,495,262	N71-13411*	c 01	NASA-CASE-XLA-05828 US-PATENT-APPL-SN-509460 US-PATENT-CLASS-235-61.6 US-PATENT-3,500,020
N71-11284*	c 07	NASA-CASE-XLA-01552 US-PATENT-APPL-SN-332339 US-PATENT-CLASS-325-65 US-PATENT-3,277,375	N71-12494*	c 08	NASA-CASE-XGS-04767 US-PATENT-APPL-SN-645584 US-PATENT-CLASS-307-296 US-PATENT-3,535,560	N71-13421*	c 02	NASA-CASE-XFR-00756 US-PATENT-APPL-SN-212173 US-PATENT-CLASS-235-150.22 US-PATENT-3,258,582
N71-11285*	c 07	NASA-CASE-NPO-10539 US-PATENT-APPL-SN-743429 US-PATENT-CLASS-343-779 US-PATENT-3,534,375	N71-12500*	c 08	NASA-CASE-XNP-07040 US-PATENT-APPL-SN-649357 US-PATENT-CLASS-332-31 US-PATENT-3,535,658	N71-13422*	c 02	NASA-CASE-XLA-06339 US-PATENT-APPL-SN-801336 US-PATENT-CLASS-244-76 US-PATENT-3,534,930
N71-11298*	c 07	NASA-CASE-XMF-01160 US-PATENT-APPL-SN-310507 US-PATENT-CLASS-340-198 US-PATENT-3,243,791	N71-12501*	c 08	NASA-CASE-XLA-00670 US-PATENT-APPL-SN-235162 US-PATENT-CLASS-340-347 US-PATENT-3,251,053	N71-13461*	c 06	NASA-CASE-LAR-10180-1 US-PATENT-APPL-SN-709398 US-PATENT-CLASS-250-41.9 US-PATENT-3,521,054
N71-11300*	c 07	NASA-CASE-XMS-07168 US-PATENT-APPL-SN-769788 US-PATENT-CLASS-178-6.6 US-PATENT-3,493,677	N71-12502*	c 08	NASA-CASE-NPO-10112 US-PATENT-APPL-SN-673226 US-PATENT-CLASS-340-172.5 US-PATENT-3,533,074	N71-13486*	c 09	NASA-CASE-MFS-20333 US-PATENT-APPL-SN-820965 US-PATENT-CLASS-307-149 US-PATENT-3,535,543
N71-11766*	c 21	NASA-CASE-LAR-10403 US-PATENT-APPL-SN-676391 US-PATENT-CLASS-343-6.5 US-PATENT-3,447,154	N71-12503*	c 08	NASA-CASE-NPO-10351 US-PATENT-APPL-SN-712065 US-PATENT-CLASS-328-37 US-PATENT-3,535,642	N71-13518*	c 09	NASA-CASE-MS-12178-1 US-PATENT-APPL-SN-845365 US-PATENT-CLASS-315-241 US-PATENT-3,530,336
N71-12217* #	c 01	NASA-CASE-FRC-10063 US-PATENT-APPL-SN-21263	N71-12504*	c 08	NASA-CASE-XMF-05835 US-PATENT-APPL-SN-627257 US-PATENT-CLASS-340-174 US-PATENT-3,493,942	N71-13521*	c 09	NASA-CASE-XKS-09348 US-PATENT-APPL-SN-677505 US-PATENT-CLASS-343-703 US-PATENT-3,526,897
N71-12243*	c 02	NASA-CASE-XLA-04451 US-PATENT-APPL-SN-457876 US-PATENT-CLASS-244-45 US-PATENT-3,310,262	N71-12505*	c 08	NASA-CASE-XNP-05415 US-PATENT-APPL-SN-578932	N71-13522*	c 09	NASA-CASE-LEW-10364-1 US-PATENT-APPL-SN-822518
N71-12255*	c 03	NASA-CASE-NPO-10404 US-PATENT-APPL-SN-728234						

		US-PATENT-CLASS-317-258			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-60-35.6
		US-PATENT-3.535,602			US-PATENT-3.535,013			US-PATENT-3.270,503
N71-13530*	c 09	NASA-CASE-XNP-00384	N71-15562*	c 25	NASA-CASE-XLA-03374	N71-15625*	c 33	NASA-CASE-XLE-01399
		US-PATENT-APPL-SN-180392			US-PATENT-APPL-SN-793770			US-PATENT-APPL-SN-320233
		US-PATENT-CLASS-324-132			US-PATENT-CLASS-315-111			US-PATENT-CLASS-13-26
		US-PATENT-3.263,171			US-PATENT-3.535,586			US-PATENT-3.263,016
N71-13531*	c 09	NASA-CASE-MS-C-12033-1	N71-15563*	c 28	NASA-CASE-XLA-02865	N71-15634*	c 27	NASA-CASE-XLE-01988
		US-PATENT-APPL-SN-602828			US-PATENT-APPL-SN-416946			US-PATENT-APPL-SN-308918
		US-PATENT-CLASS-330-11			US-PATENT-CLASS-244-53			US-PATENT-CLASS-60-35.6
		US-PATENT-3.526,845			US-PATENT-3.270,990			US-PATENT-3.258,912
N71-13537*	c 10	NASA-CASE-XNP-08274	N71-15565*	c 16	NASA-CASE-MFS-20074	N71-15635*	c 27	NASA-CASE-XLE-01182
		US-PATENT-APPL-SN-730703			US-PATENT-APPL-SN-801312			US-PATENT-APPL-SN-411949
		US-PATENT-CLASS-73-382			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-60-39.46
		US-PATENT-3.520,190			US-PATENT-3.535,014			US-PATENT-3.258,918
N71-13545*	c 10	NASA-CASE-LAR-10774	N71-15566*	c 31	NASA-CASE-XKS-08012-2	N71-15637*	c 31	NASA-CASE-XLE-01640
		US-PATENT-APPL-SN-802820			US-PATENT-APPL-SN-874958			US-PATENT-APPL-SN-473535
		US-PATENT-CLASS-73-1			US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-60-35.6
		US-PATENT-3.534,584			US-PATENT-3.535,683			US-PATENT-3.270,504
N71-13789*	c 15	NASA-CASE-XLA-01141	N71-15567*	c 16	NASA-CASE-ERC-10017	N71-15641*	c 33	NASA-CASE-XNP-09802
		US-PATENT-APPL-SN-353632			US-PATENT-APPL-SN-677506			US-PATENT-APPL-SN-673229
		US-PATENT-CLASS-102-49			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-73-190
		US-PATENT-3.263,610			US-PATENT-3.535,012			US-PATENT-3.531,989
N71-13958*	c 21	NASA-CASE-GSC-10087-2	N71-15568*	c 33	NASA-CASE-XLE-09475-1	N71-15642*	c 21	NASA-CASE-XGS-03431
		US-PATENT-APPL-SN-701744			US-PATENT-APPL-SN-710945			US-PATENT-APPL-SN-588635
		US-PATENT-CLASS-343-112			US-PATENT-CLASS-136-228			US-PATENT-CLASS-250-203
		US-PATENT-3.495,260			US-PATENT-3.535,165			US-PATENT-3.488,504
N71-14014*	c 18	NASA-CASE-GSC-10072	N71-15571*	c 15	NASA-CASE-XLA-07911	N71-15643*	c 31	NASA-CASE-NPO-10311
		US-PATENT-APPL-SN-686296			US-PATENT-APPL-SN-660572			US-PATENT-APPL-SN-725475
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-33-207			US-PATENT-CLASS-73-116
		US-PATENT-3.493,401			US-PATENT-3.492,739			US-PATENT-3.534,597
N71-14032*	c 33	NASA-CASE-XLE-05913	N71-15582*	c 21	NASA-CASE-XLA-01163	N71-15644*	c 17	NASA-CASE-XLE-00726
		US-PATENT-APPL-SN-551933			US-PATENT-APPL-SN-405632			US-PATENT-APPL-SN-355126
		US-PATENT-CLASS-117-106			US-PATENT-CLASS-60-35.55			US-PATENT-CLASS-75-170
		US-PATENT-3.490,939			US-PATENT-3.270,505			US-PATENT-3.271,140
N71-14035*	c 33	NASA-CASE-XLE-03307	N71-15583*	c 21	NASA-CASE-XMF-01598	N71-15647*	c 31	NASA-CASE-XGS-01143
		US-PATENT-APPL-SN-613979			US-PATENT-APPL-SN-333770			US-PATENT-APPL-SN-349781
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-244-1			US-PATENT-CLASS-60-35.6
		US-PATENT-3.490,718			US-PATENT-3.270,985			US-PATENT-3.270,501
N71-14043*	c 28	NASA-CASE-XLE-01124	N71-15597*	c 15	NASA-CASE-XLE-08917	N71-15658*	c 28	NASA-CASE-XLE-00409
		US-PATENT-APPL-SN-312269			US-PATENT-APPL-SN-662829			US-PATENT-APPL-SN-249539
		US-PATENT-CLASS-60-35.5			US-PATENT-CLASS-113-116			US-PATENT-CLASS-29-157
		US-PATENT-3.238,715			US-PATENT-3.490,405			US-PATENT-3.254,395
N71-14044*	c 28	NASA-CASE-XGS-08729	N71-15598*	c 14	NASA-CASE-XAC-00812	N71-15659*	c 28	NASA-CASE-XLE-05689
		US-PATENT-APPL-SN-667637			US-PATENT-APPL-SN-255132			US-PATENT-APPL-SN-491845
		US-PATENT-CLASS-60-200			US-PATENT-CLASS-73-341			US-PATENT-CLASS-60-35.60
		US-PATENT-3.490,235			US-PATENT-3.238,777			US-PATENT-3.254,487
N71-14058*	c 28	NASA-CASE-MS-C-12139-1	N71-15599*	c 14	NASA-CASE-XNP-04161	N71-15660*	c 28	NASA-CASE-XMF-00968
		US-PATENT-APPL-SN-797796			US-PATENT-APPL-SN-568356			US-PATENT-APPL-SN-339825
		US-PATENT-CLASS-103-37			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-60-35.6
		US-PATENT-3.492,947			US-PATENT-3.444,375			US-PATENT-3.270,499
N71-14090*	c 27	NASA-CASE-LAR-10173-1	N71-15600*	c 14	NASA-CASE-XKS-06250	N71-15661*	c 28	NASA-CASE-XLE-02066
		US-PATENT-APPL-SN-758942			US-PATENT-APPL-SN-649075			US-PATENT-APPL-SN-426455
		US-PATENT-CLASS-149-19			US-PATENT-CLASS-73-97			US-PATENT-CLASS-60-35.5
		US-PATENT-3.492,176			US-PATENT-3.492,862			US-PATENT-3.262,262
N71-14132*	c 21	NASA-CASE-XLA-05464	N71-15604*	c 14	NASA-CASE-NPO-10337	N71-15663*	c 31	NASA-CASE-XLA-00256
		US-PATENT-APPL-SN-656995			US-PATENT-APPL-SN-714296			US-PATENT-APPL-SN-333766
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-58			US-PATENT-CLASS-244-1
		US-PATENT-3.493,194			US-PATENT-3.488,103			US-PATENT-3.262,655
N71-14159*	c 21	NASA-CASE-XGS-04393	N71-15605*	c 14	NASA-CASE-GSC-10062	N71-15664*	c 31	NASA-CASE-XLA-01332
		US-PATENT-APPL-SN-700142			US-PATENT-APPL-SN-658955			US-PATENT-APPL-SN-250974
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-285			US-PATENT-CLASS-220-15
		US-PATENT-3.490,719			US-PATENT-3.493,294			US-PATENT-3.270,908
N71-14354*	c 26	NASA-CASE-ERC-10138	N71-15606*	c 15	NASA-CASE-XNP-06031	N71-15673*	c 23	NASA-CASE-XMS-01620
		US-PATENT-APPL-SN-821586			US-PATENT-APPL-SN-590144			US-PATENT-APPL-SN-357340
		US-PATENT-CLASS-225-2			US-PATENT-CLASS-250-52			US-PATENT-CLASS-248-358
		US-PATENT-3.493,155			US-PATENT-3.493,746			US-PATENT-3.243,154
N71-14932*	c 15	NASA-CASE-LEW-11531	N71-15607*	c 15	NASA-CASE-XMF-03287	N71-15674*	c 31	NASA-CASE-XLA-03691
		US-PATENT-APPL-SN-843332			US-PATENT-APPL-SN-658956			US-PATENT-APPL-SN-667625
		US-PATENT-CLASS-219-72			US-PATENT-CLASS-228-7			US-PATENT-CLASS-244-1
		US-PATENT-3.493,711			US-PATENT-3.443,732			US-PATENT-3.534,924
N71-14996*	c 14	NASA-CASE-XLA-00936	N71-15608*	c 15	NASA-CASE-NPO-10117	N71-15675*	c 31	NASA-CASE-XMF-03169
		US-PATENT-APPL-SN-282818			US-PATENT-APPL-SN-668238			US-PATENT-APPL-SN-375405
		US-PATENT-CLASS-73-170			US-PATENT-CLASS-138-42			US-PATENT-CLASS-89-1.5
		US-PATENT-3.238,774			US-PATENT-3.493,012			US-PATENT-3.262,365
N71-15467*	c 23	NASA-CASE-XNP-03796	N71-15609*	c 15	NASA-CASE-XMF-04709	N71-15676*	c 31	NASA-CASE-XGS-05579
		US-PATENT-APPL-SN-453231			US-PATENT-APPL-SN-683507			US-PATENT-APPL-SN-719869
		US-PATENT-CLASS-62-6			US-PATENT-CLASS-137-81.5			US-PATENT-CLASS-244-1
		US-PATENT-3.260,055			US-PATENT-3.493,003			US-PATENT-3.534,925
N71-15468*	c 17	NASA-CASE-LEW-10393-1	N71-15610*	c 15	NASA-CASE-XLE-01604-2	N71-15687*	c 31	NASA-CASE-XLA-05369
		US-PATENT-APPL-SN-644799			US-PATENT-APPL-SN-683613			US-PATENT-APPL-SN-765123
		US-PATENT-CLASS-75-202			US-PATENT-CLASS-117-50			US-PATENT-CLASS-102-49.5
		US-PATENT-3.535,110			US-PATENT-3.493,415			US-PATENT-3.534,686
N71-15469*	c 18	NASA-CASE-ARC-10099-1	N71-15620*	c 14	NASA-CASE-XLA-01926	N71-15688*	c 18	NASA-CASE-XNP-03459-2
		US-PATENT-APPL-SN-704224			US-PATENT-APPL-SN-784521			US-PATENT-APPL-SN-681942
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-340-57			US-PATENT-CLASS-260-404.5
		US-PATENT-3.535,130			US-PATENT-3.491,335			US-PATENT-3.535,352
N71-15545*	c 18	NASA-CASE-XMS-09691-1	N71-15621*	c 14	NASA-CASE-XNP-09572	N71-15689*	c 31	NASA-CASE-MFS-14685
		US-PATENT-APPL-SN-738119			US-PATENT-APPL-SN-660841			US-PATENT-APPL-SN-752947
		US-PATENT-CLASS-8-94.12			US-PATENT-CLASS-35-10.2			US-PATENT-CLASS-180-118
		US-PATENT-3.526,473			US-PATENT-3.493,665			US-PATENT-CLASS-180-121
N71-15550*	c 16	NASA-CASE-XNP-05219	N71-15622*	c 14	NASA-CASE-XNP-04111			US-PATENT-3.534,826
		US-PATENT-APPL-SN-336103			US-PATENT-APPL-SN-560969	N71-15692*	c 31	NASA-CASE-XLA-01339
		US-PATENT-CLASS-330-4			US-PATENT-CLASS-350-213			US-PATENT-APPL-SN-373591
		US-PATENT-3.299,364			US-PATENT-3.493,291			US-PATENT-CLASS-102-49
N71-15551*	c 16	NASA-CASE-ERC-10019	N71-15623*	c 33	NASA-CASE-XMS-01816			US-PATENT-3.260,204
		US-PATENT-APPL-SN-677508			US-PATENT-APPL-SN-425364	N71-15871*	c 15	NASA-CASE-XMF-02039

		US-PATENT-APPL-SN-434143			US-PATENT-APPL-SN-304749			US-PATENT-APPL-SN-701732
		US-PATENT-CLASS-219-131			US-PATENT-CLASS-35-29			US-PATENT-CLASS-250-41.9
		US-PATENT-3,271,558			US-PATENT-3,270,441			US-PATENT-3,532,880
N71-15906*	c 15	NASA-CASE-XNP-00920	N71-16030*	c 10	NASA-CASE-XMF-01096	N71-16098*	c 23	NASA-CASE-XAC-03107
		US-PATENT-APPL-SN-329331			US-PATENT-APPL-SN-307270			US-PATENT-APPL-SN-538168
		US-PATENT-CLASS-62-2			US-PATENT-CLASS-318-376			US-PATENT-CLASS-73-505
		US-PATENT-3,270,512			US-PATENT-3,271,649			US-PATENT-3,455,171
N71-15907*	c 07	NASA-CASE-XNP-01057	N71-16031*	c 12	NASA-CASE-XMS-01445	N71-16099*	c 23	NASA-CASE-XGS-07514
		US-PATENT-APPL-SN-301683			US-PATENT-APPL-SN-385526			US-PATENT-APPL-SN-640453
		US-PATENT-CLASS-343-786			US-PATENT-CLASS-137-615			US-PATENT-CLASS-328-1
		US-PATENT-3,305,870			US-PATENT-3,308,848			US-PATENT-3,509,469
N71-15908*	c 08	NASA-CASE-XLA-02705	N71-16037*	c 26	NASA-CASE-XGS-05718	N71-16100*	c 23	NASA-CASE-XGS-05715
		US-PATENT-APPL-SN-473537			US-PATENT-APPL-SN-584071			US-PATENT-APPL-SN-668257
		US-PATENT-CLASS-129-16.7			US-PATENT-CLASS-29-472.9			US-PATENT-CLASS-250-233
		US-PATENT-3,310,054			US-PATENT-3,452,423			US-PATENT-3,532,894
N71-15909*	c 10	NASA-CASE-XAC-03777	N71-16042*	c 10	NASA-CASE-XAC-00942	N71-16101*	c 23	NASA-CASE-XNP-08883
		US-PATENT-APPL-SN-484489			US-PATENT-APPL-SN-310506			US-PATENT-APPL-SN-617021
		US-PATENT-CLASS-200-6			US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-356-117
		US-PATENT-3,283,088			US-PATENT-3,277,314			US-PATENT-3,520,617
N71-15910*	c 10	NASA-CASE-XGS-00823	N71-16044*	c 17	NASA-CASE-XGS-06306	N71-16102*	c 31	NASA-CASE-XGS-09190
		US-PATENT-APPL-SN-336607			US-PATENT-APPL-SN-685473			US-PATENT-APPL-SN-647298
		US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-156-3			US-PATENT-CLASS-343-915
		US-PATENT-3,283,175			US-PATENT-3,532,568			US-PATENT-3,521,290
N71-15918*	c 15	NASA-CASE-XMS-02383	N71-16046*	c 18	NASA-CASE-GSC-10007	N71-16103*	c 32	NASA-CASE-LAR-10317-1
		US-PATENT-APPL-SN-299042			US-PATENT-APPL-SN-627599			US-PATENT-APPL-SN-739927
		US-PATENT-CLASS-140-123			US-PATENT-CLASS-117-201			US-PATENT-CLASS-137-582
		US-PATENT-3,299,913			US-PATENT-3,532,538			US-PATENT-3,508,578
N71-15922*	c 15	NASA-CASE-XGS-01971	N71-16052*	c 15	NASA-CASE-XLE-02999	N71-16104*	c 33	NASA-CASE-XLE-00785
		US-PATENT-APPL-SN-353645			US-PATENT-APPL-SN-431235			US-PATENT-APPL-SN-666554
		US-PATENT-CLASS-85-33			US-PATENT-CLASS-29-148.4			US-PATENT-CLASS-60-108
		US-PATENT-3,262,351			US-PATENT-3,262,186			US-PATENT-3,508,402
N71-15925*	c 11	NASA-CASE-XLA-00378	N71-16057*	c 10	NASA-CASE-XNP-01193	N71-16105*	c 18	NASA-CASE-XLE-08511-2
		US-PATENT-APPL-SN-266107			US-PATENT-APPL-SN-366226			US-PATENT-APPL-SN-711921
		US-PATENT-CLASS-219-10.49			US-PATENT-CLASS-324-57			US-PATENT-CLASS-117-119
		US-PATENT-3,238,345			US-PATENT-3,277,366			US-PATENT-3,508,955
N71-15926*	c 11	NASA-CASE-XLA-00939	N71-16058*	c 10	NASA-CASE-XMF-01097	N71-16106*	c 32	NASA-CASE-XLA-04605
		US-PATENT-APPL-SN-309354			US-PATENT-APPL-SN-290873			US-PATENT-APPL-SN-619519
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-340-227			US-PATENT-CLASS-137-582
		US-PATENT-3,276,251			US-PATENT-3,277,458			US-PATENT-3,443,584
N71-15960*	c 11	NASA-CASE-XAC-00731	N71-16073*	c 25	NASA-CASE-XAC-05695	N71-16124*	c 18	NASA-CASE-XMF-05279
		US-PATENT-APPL-SN-232318			US-PATENT-APPL-SN-634038			US-PATENT-APPL-SN-617774
		US-PATENT-CLASS-220-89			US-PATENT-CLASS-324-34			US-PATENT-CLASS-106-88
		US-PATENT-3,145,874			US-PATENT-3,517,302			US-PATENT-3,508,940
N71-15962*	c 14	NASA-CASE-XGS-01587	N71-16075*	c 15	NASA-CASE-XLA-00284	N71-16210*	c 18	NASA-CASE-XNP-08837
		US-PATENT-APPL-SN-298799			US-PATENT-APPL-SN-240760			US-PATENT-APPL-SN-691736
		US-PATENT-CLASS-324-43			US-PATENT-CLASS-117-69			US-PATENT-CLASS-204-20
		US-PATENT-3,258,687			US-PATENT-3,264,135			US-PATENT-3,526,580
N71-15966*	c 15	NASA-CASE-XLE-00953	N71-16076*	c 15	NASA-CASE-XLE-00106	N71-16212*	c 23	NASA-CASE-NPO-10250
		US-PATENT-APPL-SN-336320			US-PATENT-APPL-SN-629759			US-PATENT-APPL-SN-736848
		US-PATENT-CLASS-22-200			US-PATENT-CLASS-25-156			US-PATENT-CLASS-149-1
		US-PATENT-3,237,253			US-PATENT-2,944,316			US-PATENT-3,516,879
N71-15967*	c 15	NASA-CASE-XLE-00703	N71-16077*	c 15	NASA-CASE-XLA-00302	N71-16213*	c 24	NASA-CASE-XGS-06628
		US-PATENT-APPL-SN-271822			US-PATENT-APPL-SN-284266			US-PATENT-APPL-SN-665680
		US-PATENT-CLASS-137-13			US-PATENT-CLASS-117-46			US-PATENT-CLASS-315-111
		US-PATENT-3,270,756			US-PATENT-3,271,181			US-PATENT-3,509,419
N71-15968*	c 15	NASA-CASE-XLE-00586	N71-16078*	c 15	NASA-CASE-XGS-00824	N71-16221*	c 31	NASA-CASE-XLA-05906
		US-PATENT-APPL-SN-317391			US-PATENT-APPL-SN-379072			US-PATENT-APPL-SN-777766
		US-PATENT-CLASS-55-160			US-PATENT-CLASS-89-1			US-PATENT-CLASS-73-432
		US-PATENT-3,257,780			US-PATENT-3,309,961			US-PATENT-3,526,139
N71-15969*	c 14	NASA-CASE-XMF-01099	N71-16079*	c 15	NASA-CASE-XLA-00415	N71-16222*	c 31	NASA-CASE-MFS-11133
		US-PATENT-APPL-SN-73367			US-PATENT-APPL-SN-314074			US-PATENT-APPL-SN-693419
		US-PATENT-CLASS-73-517			US-PATENT-CLASS-233-11			US-PATENT-CLASS-244-1
		US-PATENT-3,261,210			US-PATENT-3,276,679			US-PATENT-3,508,723
N71-15974*	c 32	NASA-CASE-XMS-06782	N71-16080*	c 31	NASA-CASE-MSC-12049	N71-16223*	c 27	NASA-CASE-MFS-12750
		US-PATENT-APPL-SN-691739			US-PATENT-APPL-SN-693420			US-PATENT-APPL-SN-806149
		US-PATENT-CLASS-338-5			US-PATENT-CLASS-52-3			US-PATENT-CLASS-73-432
		US-PATENT-3,464,049			US-PATENT-3,465,482			US-PATENT-3,526,140
N71-15978*	c 23	NASA-CASE-XGS-00373	N71-16081*	c 31	NASA-CASE-XGS-03351	N71-16224*	c 28	NASA-CASE-MFS-11497
		US-PATENT-APPL-SN-105518			US-PATENT-APPL-SN-472747			US-PATENT-APPL-SN-730733
		US-PATENT-CLASS-161-189			US-PATENT-CLASS-244-31			US-PATENT-CLASS-239-265.43
		US-PATENT-3,276,946			US-PATENT-3,276,726			US-PATENT-3,526,365
N71-15986*	c 15	NASA-CASE-XMF-03498	N71-16085*	c 31	NASA-CASE-XLA-09881	N71-16277*	c 33	NASA-CASE-XMS-04268
		US-PATENT-APPL-SN-396443			US-PATENT-APPL-SN-710562			US-PATENT-APPL-SN-516160
		US-PATENT-CLASS-29-155.55			US-PATENT-CLASS-244-138			US-PATENT-CLASS-165-133
		US-PATENT-3,258,831			US-PATENT-3,520,503			US-PATENT-3,502,141
N71-15990*	c 30	NASA-CASE-XAC-08494	N71-16086*	c 09	NASA-CASE-XLE-02038	N71-16278*	c 33	NASA-CASE-XMF-04237
		US-PATENT-APPL-SN-690998			US-PATENT-APPL-SN-349782			US-PATENT-APPL-SN-539237
		US-PATENT-CLASS-356-74			US-PATENT-CLASS-73-147			US-PATENT-CLASS-219-364
		US-PATENT-3,532,428			US-PATENT-3,273,388			US-PATENT-3,517,162
N71-15992*	c 14	NASA-CASE-XGS-01052	N71-16087*	c 02	NASA-CASE-XAC-02058	N71-16281*	c 20	NASA-CASE-XLA-02081
		US-PATENT-APPL-SN-314572			US-PATENT-APPL-SN-342572			US-PATENT-APPL-SN-522795
		US-PATENT-CLASS-73-15			US-PATENT-CLASS-244-1			US-PATENT-CLASS-73-189
		US-PATENT-3,242,716			US-PATENT-3,276,722			US-PATENT-3,507,150
N71-16014*	c 14	NASA-CASE-XLE-00820	N71-16088*	c 07	NASA-CASE-XGS-01022	N71-16340*	c 20	NASA-CASE-XMF-14032
		US-PATENT-APPL-SN-228569			US-PATENT-APPL-SN-331323			US-PATENT-APPL-SN-679862
		US-PATENT-CLASS-324-32			US-PATENT-CLASS-325-4			US-PATENT-CLASS-250-209
		US-PATENT-3,283,241			US-PATENT-3,277,373			US-PATENT-3,501,641
N71-16025*	c 17	NASA-CASE-XLE-02991	N71-16089*	c 09	NASA-CASE-XAC-02405	N71-16341*	c 23	NASA-CASE-XGS-05291
		US-PATENT-APPL-SN-375401			US-PATENT-APPL-SN-433821			US-PATENT-APPL-SN-553891
		US-PATENT-CLASS-75-170			US-PATENT-CLASS-200-6			US-PATENT-CLASS-356-209
		US-PATENT-3,276,865			US-PATENT-3,271,532			US-PATENT-3,504,983
N71-16026*	c 17	NASA-CASE-XLE-02082	N71-16090*	c 30	NASA-CASE-GSC-10083-1	N71-16345*	c 31	NASA-CASE-XMF-05344
		US-PATENT-APPL-SN-360180			US-PATENT-APPL-SN-641431			US-PATENT-APPL-SN-702396
		US-PATENT-CLASS-75-171			US-PATENT-CLASS-343-6			US-PATENT-CLASS-244-1
		US-PATENT-3,276,866			US-PATENT-3,471,856			US-PATENT-3,520,496
N71-16028*	c 11	NASA-CASE-XLA-01787	N71-16095*	c 24	NASA-CASE-XAC-05506-1	N71-16346*	c 31	NASA-CASE-XMS-03613

		US-PATENT-APPL-SN-802816			US-PATENT-APPL-SN-270118	N71-17685*	c 15	NASA-CASE-NPO-10034
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-230-162			US-PATENT-APPL-SN-668241
		US-PATENT-3,526,372			US-PATENT-3,309,012			US-PATENT-CLASS-339-17
N71-16348*	c 27	NASA-CASE-MSC-12280	N71-17626*	c 14	NASA-CASE-LAR-10274-1	N71-17686*	c 15	US-PATENT-3,464,051
		US-PATENT-APPL-SN-372648			US-PATENT-APPL-SN-717052			NASA-CASE-MFS-20586
		US-PATENT-CLASS-250-43.5			US-PATENT-CLASS-188-1			US-PATENT-APPL-SN-688868
		US-PATENT-3,501,632			US-PATENT-3,491,857			US-PATENT-CLASS-29-428
N71-16355*	c 23	NASA-CASE-XGS-05534	N71-17627*	c 14	NASA-CASE-XGS-03532	N71-17687*	c 15	US-PATENT-3,526,030
		US-PATENT-APPL-SN-578925			US-PATENT-APPL-SN-538913			NASA-CASE-XLA-04143
		US-PATENT-CLASS-23-253			US-PATENT-CLASS-356-106			US-PATENT-APPL-SN-628246
		US-PATENT-3,520,660			US-PATENT-3,488,123			US-PATENT-CLASS-156-510
N71-16356*	c 33	NASA-CASE-NPO-10158	N71-17628*	c 15	NASA-CASE-MFS-10340	N71-17688*	c 15	US-PATENT-3,508,999
		US-PATENT-APPL-SN-730702			US-PATENT-APPL-SN-716734			NASA-CASE-XLE-09527
		US-PATENT-CLASS-73-343			US-PATENT-CLASS-225-1			US-PATENT-APPL-SN-686344
		US-PATENT-3,526,134			US-PATENT-3,507,425			US-PATENT-CLASS-29-148.4
N71-16357*	c 33	NASA-CASE-NPO-10138	N71-17629*	c 31	NASA-CASE-XLE-03583	N71-17691*	c 31	US-PATENT-3,500,525
		US-PATENT-APPL-SN-759457			US-PATENT-APPL-SN-400617			NASA-CASE-XLA-00937
		US-PATENT-CLASS-236-1			US-PATENT-CLASS-244-3.22			US-PATENT-APPL-SN-393461
		US-PATENT-3,526,359			US-PATENT-3,276,376			US-PATENT-CLASS-244-3.14
N71-16365*	c 23	NASA-CASE-XNP-08840	N71-17631*	c 12	NASA-CASE-NPO-10122	N71-17692*	c 15	US-PATENT-3,310,258
		US-PATENT-APPL-SN-649360			US-PATENT-APPL-SN-710949			NASA-CASE-MFS-14772
		US-PATENT-CLASS-356-36			US-PATENT-CLASS-60-217			US-PATENT-APPL-SN-774151
		US-PATENT-3,526,460			US-PATENT-3,534,555			US-PATENT-CLASS-74-63
N71-16392*	c 27	NASA-CASE-XNP-09744	N71-17645*	c 32	NASA-CASE-XNP-01153	N71-17693*	c 15	US-PATENT-3,529,480
		US-PATENT-APPL-SN-685750			US-PATENT-APPL-SN-336608			NASA-CASE-NPO-10064
		US-PATENT-CLASS-60-39.47			US-PATENT-CLASS-73-88			US-PATENT-APPL-SN-668755
		US-PATENT-3,507,114			US-PATENT-3,273,381			US-PATENT-CLASS-244-1
N71-16393*	c 17	NASA-CASE-NPO-10271	N71-17647*	c 15	NASA-CASE-XMF-01667	N71-17694*	c 15	US-PATENT-3,501,112
		US-PATENT-APPL-SN-763869			US-PATENT-APPL-SN-577115			NASA-CASE-XNP-08897
		US-PATENT-CLASS-21-207			US-PATENT-CLASS-118-11			US-PATENT-APPL-SN-640450
		US-PATENT-3,529,928			US-PATENT-3,502,051			US-PATENT-CLASS-318-22
N71-16428*	c 32	NASA-CASE-XLA-03135	N71-17648*	c 15	NASA-CASE-MSC-12116-1	N71-17696*	c 15	US-PATENT-3,501,683
		US-PATENT-APPL-SN-582171			US-PATENT-APPL-SN-768336			NASA-CASE-XLA-05100
		US-PATENT-CLASS-73-71.4			US-PATENT-CLASS-251-358			US-PATENT-APPL-SN-724551
		US-PATENT-3,503,251			US-PATENT-3,508,739			US-PATENT-CLASS-73-103
N71-16894*	c 12	NASA-CASE-XLA-02079	N71-17649*	c 15	NASA-CASE-MFS-11132	N71-17701*	c 14	US-PATENT-3,487,680
		US-PATENT-APPL-SN-435756			US-PATENT-APPL-SN-744910			NASA-CASE-NPO-10144
		US-PATENT-CLASS-188-87			US-PATENT-CLASS-248-360			US-PATENT-APPL-SN-688805
		US-PATENT-3,310,138			US-PATENT-3,526,382			US-PATENT-CLASS-73-29
N71-17569*	c 12	NASA-CASE-MSC-12084-1	N71-17650*	c 15	NASA-CASE-XMF-05114	N71-17705*	c 06	US-PATENT-3,534,585
		US-PATENT-APPL-SN-762438			US-PATENT-APPL-SN-637882			NASA-CASE-XGS-05532
		US-PATENT-CLASS-73-204			US-PATENT-CLASS-29-517			US-PATENT-APPL-SN-570093
		US-PATENT-3,500,686			US-PATENT-3,507,034			US-PATENT-CLASS-195-99
N71-17573*	c 12	NASA-CASE-LAR-10323-1	N71-17651*	c 15	NASA-CASE-XLE-03803-2	N71-17729*	c 31	US-PATENT-3,423,290
		US-PATENT-APPL-SN-738314			US-PATENT-APPL-SN-669336			NASA-CASE-XAC-01591
		US-PATENT-CLASS-73-45.5			US-PATENT-CLASS-156-172			US-PATENT-APPL-SN-385527
		US-PATENT-3,516,284			US-PATENT-3,535,179			US-PATENT-CLASS-244-1
N71-17574*	c 14	NASA-CASE-XGS-04993	N71-17652*	c 15	NASA-CASE-XLE-05079	N71-17730*	c 31	US-PATENT-3,282,532
		US-PATENT-APPL-SN-577775			US-PATENT-APPL-SN-601228			NASA-CASE-XMF-01543
		US-PATENT-CLASS-96-49			US-PATENT-CLASS-310-93			US-PATENT-APPL-SN-402365
		US-PATENT-3,458,313			US-PATENT-3,493,797			US-PATENT-CLASS-102-49
N71-17575*	c 14	NASA-CASE-XMF-06531	N71-17653*	c 15	NASA-CASE-ARC-10140-1	N71-17788*	c 30	US-PATENT-3,286,629
		US-PATENT-APPL-SN-732917			US-PATENT-APPL-SN-783379			NASA-CASE-XGS-00783
		US-PATENT-CLASS-204-195			US-PATENT-CLASS-24-211			US-PATENT-APPL-SN-372438
		US-PATENT-3,509,034			US-PATENT-CLASS-85-3			US-PATENT-CLASS-73-432
N71-17578*	c 12	NASA-CASE-MFS-10412			US-PATENT-3,534,650	N71-17802*	c 23	US-PATENT-3,286,531
		US-PATENT-APPL-SN-701635	N71-17654*	c 15	NASA-CASE-XNP-09702			NASA-CASE-XLE-00454
		US-PATENT-CLASS-137-81.5			US-PATENT-APPL-SN-730734			US-PATENT-APPL-SN-295855
		US-PATENT-3,520,317			US-PATENT-CLASS-239-416			US-PATENT-CLASS-73-295
N71-17579*	c 12	NASA-CASE-XLA-07391			US-PATENT-3,534,909	N71-17803*	c 15	US-PATENT-3,273,392
		US-PATENT-APPL-SN-726898	N71-17655*	c 14	NASA-CASE-NPO-10320			NASA-CASE-XMS-05516
		US-PATENT-CLASS-137-81.5			US-PATENT-APPL-SN-718689			US-PATENT-APPL-SN-563648
		US-PATENT-3,493,004			US-PATENT-CLASS-356-106			US-PATENT-CLASS-264-92
N71-17584*	c 14	NASA-CASE-XNP-09462			US-PATENT-3,535,041	N71-17805*	c 15	US-PATENT-3,488,414
		US-PATENT-APPL-SN-658957	N71-17656*	c 14	NASA-CASE-MFS-12827			NASA-CASE-MFS-12805
		US-PATENT-CLASS-73-57			US-PATENT-APPL-SN-742816			US-PATENT-APPL-SN-758082
		US-PATENT-3,500,677			US-PATENT-CLASS-73-88.5			US-PATENT-CLASS-192-43.1
N71-17585*	c 14	NASA-CASE-XGS-05680			US-PATENT-3,534,592			US-PATENT-CLASS-81-63.1
		US-PATENT-APPL-SN-656953	N71-17657*	c 14	NASA-CASE-XNP-09205			US-PATENT-3,534,836
		US-PATENT-CLASS-318-138			US-PATENT-APPL-SN-768473	N71-17818*	c 26	NASA-CASE-XMF-01016
		US-PATENT-3,501,664			US-PATENT-CLASS-33-149			US-PATENT-APPL-SN-326299
N71-17586*	c 14	NASA-CASE-XLA-08646			US-PATENT-3,534,479			US-PATENT-CLASS-264-27
		US-PATENT-APPL-SN-677476	N71-17658*	c 14	NASA-CASE-XMF-04966			US-PATENT-3,274,304
		US-PATENT-CLASS-73-105			US-PATENT-APPL-SN-727480	N71-17822*	c 15	NASA-CASE-ARC-10009-1
		US-PATENT-3,534,596			US-PATENT-CLASS-33-174			US-PATENT-APPL-SN-714595
N71-17587*	c 14	NASA-CASE-XMF-05844			US-PATENT-3,534,480			US-PATENT-CLASS-324-58.5
		US-PATENT-APPL-SN-706564	N71-17659*	c 14	NASA-CASE-XMF-02964			US-PATENT-3,532,973
		US-PATENT-CLASS-73-382			US-PATENT-APPL-SN-493942	N71-17897*	c 33	NASA-CASE-XLA-00892
		US-PATENT-3,500,688			US-PATENT-CLASS-73-15.4			US-PATENT-APPL-SN-245941
N71-17588*	c 14	NASA-CASE-MFS-12806			US-PATENT-3,465,569			US-PATENT-CLASS-62-467
		US-PATENT-APPL-SN-686933	N71-17661*	c 12	NASA-CASE-NPO-10298			US-PATENT-3,273,355
		US-PATENT-CLASS-55-179			US-PATENT-APPL-SN-745852	N71-18064*	c 26	NASA-CASE-XNP-01328
		US-PATENT-3,490,205			US-PATENT-CLASS-137-341			US-PATENT-APPL-SN-296879
N71-17599*	c 05	NASA-CASE-MSC-12206-1			US-PATENT-3,534,765			US-PATENT-CLASS-317-234
		US-PATENT-APPL-SN-856258	N71-17662*	c 14	NASA-CASE-NPO-10300			US-PATENT-3,271,637
		US-PATENT-CLASS-128-142.5			US-PATENT-APPL-SN-718769	N71-18132*	c 15	NASA-CASE-MFS-13686
		US-PATENT-3,516,404			US-PATENT-CLASS-350-285			US-PATENT-APPL-SN-716183
N71-17600*	c 11	NASA-CASE-MFS-12915			US-PATENT-3,535,024			US-PATENT-CLASS-73-67.2
		US-PATENT-APPL-SN-694340	N71-17679*	c 31	NASA-CASE-XNP-02507			US-PATENT-3,531,982
		US-PATENT-CLASS-220-89			US-PATENT-APPL-SN-475299	N71-18465*	c 14	NASA-CASE-NPO-10174
		US-PATENT-3,469,734			US-PATENT-CLASS-244-1			US-PATENT-APPL-SN-690163
N71-17609*	c 32	NASA-CASE-XLA-02332			US-PATENT-3,310,256			US-PATENT-CLASS-95-11
		US-PATENT-APPL-SN-388024	N71-17680*	c 31	NASA-CASE-XLA-00117	N71-18481*	c 14	US-PATENT-3,520,238
		US-PATENT-CLASS-212-11			US-PATENT-APPL-SN-835153			NASA-CASE-XLA-02758
		US-PATENT-3,276,602			US-PATENT-CLASS-220-1			US-PATENT-APPL-SN-759665
N71-17610*	c 33	NASA-CASE-XLA-00377			US-PATENT-2,996,212			US-PATENT-CLASS-73-4

N71-18482*	c 14	US-PATENT-3,531,978 NASA-CASE-XLA-07424 US-PATENT-APPL-SN-635326 US-PATENT-CLASS-313-7 US-PATENT-3,466,484	N71-18699*	c 14	US-PATENT-3,507,706 NASA-CASE-XLA-03273 US-PATENT-APPL-SN-487352 US-PATENT-CLASS-250-83-3 US-PATENT-3,458,702	N71-19433*	c 07	US-PATENT-3,517,318 NASA-CASE-MFS-13046 US-PATENT-APPL-SN-673228 US-PATENT-CLASS-178-6 US-PATENT-3,532,807
N71-18483*	c 14	NASA-CASE-XER-09519 US-PATENT-APPL-SN-676375 US-PATENT-CLASS-55-208 US-PATENT-3,469,375	N71-18701*	c 15	NASA-CASE-XMF-07587 US-PATENT-APPL-SN-649359 US-PATENT-CLASS-317-122 US-PATENT-3,448,346	N71-19435*	c 08	NASA-CASE-XGS-02612 US-PATENT-APPL-SN-502743 US-PATENT-CLASS-340-347 US-PATENT-3,509,558
N71-18578*	c 11	NASA-CASE-XAC-05902 US-PATENT-APPL-SN-662828 US-PATENT-CLASS-89-8 US-PATENT-3,465,638	N71-18720*	c 09	NASA-CASE-MSC-12101 US-PATENT-APPL-SN-763705 US-PATENT-CLASS-343-718 US-PATENT-3,509,570	N71-19436*	c 07	NASA-CASE-XMF-09422 US-PATENT-APPL-SN-783378 US-PATENT-CLASS-174-35 US-PATENT-3,517,109
N71-18579*	c 15	NASA-CASE-XGS-04175 US-PATENT-APPL-SN-606464 US-PATENT-CLASS-72-364 US-PATENT-3,465,567	N71-18721*	c 09	NASA-CASE-XER-07894 US-PATENT-APPL-SN-644444 US-PATENT-CLASS-331-107 US-PATENT-3,509,491	N71-19437*	c 08	NASA-CASE-XGS-04768 US-PATENT-APPL-SN-598119 US-PATENT-CLASS-235-158 US-PATENT-3,508,039
N71-18580*	c 15	NASA-CASE-XNP-09698 US-PATENT-APPL-SN-698592 US-PATENT-CLASS-138-4 US-PATENT-CLASS-138-45 US-PATENT-CLASS-251-118 US-PATENT-CLASS-251-121 US-PATENT-3,532,128	N71-18722*	c 10	NASA-CASE-ERC-10046 US-PATENT-APPL-SN-793772 US-PATENT-CLASS-343-100 US-PATENT-3,501,764	N71-19438*	c 03	NASA-CASE-XGS-05432 US-PATENT-APPL-SN-549860 US-PATENT-CLASS-320-23 US-PATENT-3,426,263
N71-18594*	c 08	NASA-CASE-XAC-04031 US-PATENT-APPL-SN-538905 US-PATENT-CLASS-340-347 US-PATENT-3,533,098	N71-18723*	c 10	NASA-CASE-XNP-09450 US-PATENT-APPL-SN-640459 US-PATENT-CLASS-307-273 US-PATENT-3,501,649	N71-19439*	c 05	NASA-CASE-XMS-09571 US-PATENT-APPL-SN-678700 US-PATENT-CLASS-165-46 US-PATENT-3,425,487
N71-18595*	c 08	NASA-CASE-XGS-03303 US-PATENT-APPL-SN-520838 US-PATENT-CLASS-340-174 US-PATENT-3,501,752	N71-18724*	c 10	NASA-CASE-XLA-09371 US-PATENT-APPL-SN-568160 US-PATENT-CLASS-318-257 US-PATENT-3,504,258	N71-19440*	c 05	NASA-CASE-XMS-01177 US-PATENT-APPL-SN-516150 US-PATENT-CLASS-250-83 US-PATENT-3,427,454
N71-18598*	c 09	NASA-CASE-NPO-10066 US-PATENT-APPL-SN-681693 US-PATENT-CLASS-343-13 US-PATENT-3,447,155	N71-18751*	c 08	NASA-CASE-XLA-07732 US-PATENT-APPL-SN-641441 US-PATENT-CLASS-307-216 US-PATENT-3,512,009	N71-19449*	c 09	NASA-CASE-XFR-03107 US-PATENT-APPL-SN-507257 US-PATENT-CLASS-178-6 US-PATENT-3,458,651
N71-18599*	c 09	NASA-CASE-LAR-10372 US-PATENT-APPL-SN-730162 US-PATENT-CLASS-102-70.2 US-PATENT-3,500,747	N71-18752*	c 08	NASA-CASE-XMF-00663 US-PATENT-APPL-SN-205470 US-PATENT-CLASS-321-5 US-PATENT-3,521,143	N71-19466*	c 09	NASA-CASE-XGS-02812 US-PATENT-APPL-SN-502750 US-PATENT-CLASS-330-30 US-PATENT-3,466,560
N71-18600*	c 09	NASA-CASE-MSC-12168-1 US-PATENT-APPL-SN-640154 US-PATENT-CLASS-312-296 US-PATENT-3,447,850	N71-18772*	c 10	NASA-CASE-GSC-10366-1 US-PATENT-APPL-SN-771523 US-PATENT-CLASS-318-138 US-PATENT-3,532,948	N71-19467*	c 10	NASA-CASE-XMF-08665 US-PATENT-APPL-SN-582609 US-PATENT-CLASS-325-63 US-PATENT-3,470,475
N71-18602*	c 08	NASA-CASE-XGS-04766 US-PATENT-APPL-SN-598120 US-PATENT-CLASS-235-175 US-PATENT-3,532,866	N71-18773*	c 11	NASA-CASE-XMF-07488 US-PATENT-APPL-SN-707495 US-PATENT-CLASS-35-12 US-PATENT-3,534,485	N71-19468*	c 10	NASA-CASE-XMS-05605-1 US-PATENT-APPL-SN-764812 US-PATENT-CLASS-178-69.5 US-PATENT-3,532,819
N71-18603*	c 12	NASA-CASE-ERC-10031 US-PATENT-APPL-SN-741461 US-PATENT-CLASS-40-28 US-PATENT-3,516,185	N71-18830*	c 09	NASA-CASE-XAC-10768 US-PATENT-APPL-SN-711970 US-PATENT-CLASS-250-83 US-PATENT-3,508,053	N71-19469*	c 10	NASA-CASE-XNP-00777 US-PATENT-APPL-SN-486573 US-PATENT-CLASS-329-122 US-PATENT-3,517,268
N71-18611*	c 31	NASA-CASE-MFS-20400 US-PATENT-APPL-SN-551694 US-PATENT-CLASS-152-11 US-PATENT-3,493,027	N71-18843*	c 09	NASA-CASE-XNP-03263 US-PATENT-APPL-SN-506908 US-PATENT-CLASS-340-146.1 US-PATENT-3,501,743	N71-19470*	c 09	NASA-CASE-XGS-05289 US-PATENT-APPL-SN-632104 US-PATENT-CLASS-331-113 US-PATENT-3,470,496
N71-18613*	c 15	NASA-CASE-XNP-02588 US-PATENT-APPL-SN-563644 US-PATENT-CLASS-219-91 US-PATENT-3,466,418	N71-19212*	c 21	NASA-CASE-MFS-20386 US-PATENT-APPL-SN-818349 US-PATENT-CLASS-356-28 US-PATENT-3,532,427	N71-19471*	c 10	NASA-CASE-XLE-03804 US-PATENT-APPL-SN-526631 US-PATENT-CLASS-307-235 US-PATENT-3,463,939
N71-18614*	c 16	NASA-CASE-XGS-03644 US-PATENT-APPL-SN-505320 US-PATENT-CLASS-331-94.5 US-PATENT-3,517,328	N71-19213*	c 15	NASA-CASE-MFS-14259 US-PATENT-APPL-SN-787410 US-PATENT-CLASS-138-43 US-PATENT-3,536,103	N71-19472*	c 10	NASA-CASE-XAC-04030 US-PATENT-APPL-SN-520839 US-PATENT-CLASS-328-1 US-PATENT-3,464,016
N71-18615*	c 12	NASA-CASE-XNP-09704 US-PATENT-APPL-SN-730701 US-PATENT-CLASS-137-594 US-PATENT-CLASS-138-46 US-PATENT-CLASS-251-127 US-PATENT-CLASS-251-333 US-PATENT-CLASS-251-342 US-PATENT-CLASS-251-61.1 US-PATENT-3,532,118	N71-19214*	c 15	NASA-CASE-MFS-20410 US-PATENT-APPL-SN-819599 US-PATENT-CLASS-244-1 US-PATENT-3,534,926	N71-19479*	c 09	NASA-CASE-XMS-04300 US-PATENT-APPL-SN-516158 US-PATENT-CLASS-350-275 US-PATENT-3,427,093
N71-18616*	c 15	NASA-CASE-XLA-07390 US-PATENT-APPL-SN-665681 US-PATENT-CLASS-72-53 US-PATENT-3,531,964	N71-19287*	c 02	NASA-CASE-GSC-10087-1 US-PATENT-APPL-SN-701679 US-PATENT-CLASS-343-112 US-PATENT-3,534,367	N71-19480*	c 09	NASA-CASE-XFR-05637 US-PATENT-APPL-SN-484855 US-PATENT-CLASS-235-194 US-PATENT-3,423,579
N71-18625*	c 14	NASA-CASE-NPO-10175 US-PATENT-APPL-SN-685787 US-PATENT-CLASS-137-505.12 US-PATENT-3,443,583	N71-19288*	c 08	NASA-CASE-NPO-10068 US-PATENT-APPL-SN-668969 US-PATENT-CLASS-340-172.5 US-PATENT-3,501,750	N71-19485*	c 15	NASA-CASE-MSC-11010 US-PATENT-APPL-SN-605090 US-PATENT-CLASS-251-31 US-PATENT-3,447,774
N71-18692*	c 08	NASA-CASE-MFS-14322 US-PATENT-APPL-SN-646934 US-PATENT-CLASS-328-134 US-PATENT-3,501,701	N71-19417*	c 10	NASA-CASE-XMS-10984-1 US-PATENT-APPL-SN-605095 US-PATENT-CLASS-340-213.1 US-PATENT-3,533,093	N71-19486*	c 15	NASA-CASE-XMF-08522 US-PATENT-APPL-SN-640447 US-PATENT-CLASS-219-121 US-PATENT-3,474,220
N71-18693*	c 08	NASA-CASE-XGS-04765 US-PATENT-APPL-SN-577545 US-PATENT-CLASS-235-156 US-PATENT-3,508,036	N71-19418*	c 10	NASA-CASE-GSC-10041-1 US-PATENT-APPL-SN-684209 US-PATENT-CLASS-331-113 US-PATENT-3,458,833	N71-19489*	c 15	NASA-CASE-XMF-04680 US-PATENT-APPL-SN-634040 US-PATENT-CLASS-33-147 US-PATENT-3,425,131
N71-18694*	c 08	NASA-CASE-NPO-10201 US-PATENT-APPL-SN-691738 US-PATENT-CLASS-340-174 US-PATENT-3,509,551	N71-19420*	c 08	NASA-CASE-XNP-09453 US-PATENT-APPL-SN-640448 US-PATENT-CLASS-226-190 US-PATENT-3,507,436	N71-19493*	c 07	NASA-CASE-XKS-08485 US-PATENT-APPL-SN-649078 US-PATENT-CLASS-343-873 US-PATENT-3,509,578
N71-18698*	c 03	NASA-CASE-NPO-10373 US-PATENT-APPL-SN-718752 US-PATENT-CLASS-136-89	N71-19421*	c 10	NASA-CASE-XLA-08493 US-PATENT-APPL-SN-749148 US-PATENT-CLASS-324-72 US-PATENT-3,532,975	N71-19494*	c 11	NASA-CASE-MFS-10555 US-PATENT-APPL-SN-700984 US-PATENT-CLASS-35-12 US-PATENT-3,516,179
			N71-19431*	c 14	NASA-CASE-XGS-02439 US-PATENT-APPL-SN-487341 US-PATENT-CLASS-324-120 US-PATENT-3,422,352	N71-19516*	c 09	NASA-CASE-XNP-06937 US-PATENT-APPL-SN-640449 US-PATENT-CLASS-330-30 US-PATENT-3,501,712
			N71-19432*	c 08	NASA-CASE-XGS-02440 US-PATENT-APPL-SN-655677 US-PATENT-CLASS-328-42	N71-19544*	c 08	NASA-CASE-XGS-01230 US-PATENT-APPL-SN-356488 US-PATENT-CLASS-340-347

N71-19545*	c 03	US-PATENT-3,474,441 NASA-CASE-NPO-10821 US-PATENT-APPL-SN-670814 US-PATENT-CLASS-136-89 US-PATENT-3,466,198	N71-20439*	c 14	US-PATENT-3,461,721 NASA-CASE-XAC-04886-1 US-PATENT-APPL-SN-574290 US-PATENT-CLASS-73-142 US-PATENT-3,425,272	N71-20742*	c 18	US-PATENT-3,360,980 NASA-CASE-XMS-02952 US-PATENT-APPL-SN-519160 US-PATENT-CLASS-55-158 US-PATENT-3,355,861
N71-19547*	c 10	NASA-CASE-XGS-03058 US-PATENT-APPL-SN-568987 US-PATENT-CLASS-307-289 US-PATENT-3,517,221	N71-20440*	c 15	NASA-CASE-XNP-09770 US-PATENT-APPL-SN-700120 US-PATENT-CLASS-209-10 US-PATENT-3,472,372	N71-20743*	c 17	NASA-CASE-XMF-02786 US-PATENT-APPL-SN-466873 US-PATENT-CLASS-75-142 US-PATENT-3,347,665
N71-19568*	c 14	NASA-CASE-MSC-10966 US-PATENT-APPL-SN-665676 US-PATENT-CLASS-250-203 US-PATENT-3,421,004	N71-20441*	c 15	NASA-CASE-XMS-06329-1 US-PATENT-APPL-SN-688742 US-PATENT-CLASS-73-141 US-PATENT-3,472,069	N71-20747*	c 25	NASA-CASE-XLE-02578 US-PATENT-APPL-SN-469012 US-PATENT-CLASS-313-271 US-PATENT-3,356,885
N71-19569*	c 15	NASA-CASE-XLA-05749 US-PATENT-APPL-SN-621714 US-PATENT-CLASS-137-582 US-PATENT-3,426,791	N71-20442*	c 14	NASA-CASE-MFS-11537 US-PATENT-APPL-SN-636878 US-PATENT-CLASS-23-254 US-PATENT-3,472,629	N71-20782*	c 10	NASA-CASE-XGS-01784 US-PATENT-APPL-SN-396444 US-PATENT-CLASS-250-206 US-PATENT-3,348,053
N71-19570*	c 15	NASA-CASE-XLE-05130-2 US-PATENT-APPL-SN-700586 US-PATENT-CLASS-277-25 US-PATENT-3,466,052	N71-20443*	c 15	NASA-CASE-MFS-07369 US-PATENT-APPL-SN-640462 US-PATENT-CLASS-29-492 US-PATENT-3,473,216	N71-20791*	c 07	NASA-CASE-XNP-05254 US-PATENT-APPL-SN-472372 US-PATENT-CLASS-325-31 US-PATENT-3,350,643
N71-19610*	c 09	NASA-CASE-NPO-10037 US-PATENT-APPL-SN-700987 US-PATENT-CLASS-200-152 US-PATENT-3,470,342	N71-20445*	c 09	NASA-CASE-XNP-09775 US-PATENT-APPL-SN-668247 US-PATENT-CLASS-333-96 US-PATENT-3,474,357	N71-20813*	c 15	NASA-CASE-XMS-02184 US-PATENT-APPL-SN-608247 US-PATENT-CLASS-248-27 US-PATENT-3,361,400
N71-19687*	c 08	NASA-CASE-XNP-04780 US-PATENT-APPL-SN-455477 US-PATENT-CLASS-340-347 US-PATENT-3,430,227	N71-20446*	c 09	NASA-CASE-XLE-04250 US-PATENT-APPL-SN-621098 US-PATENT-CLASS-310-54 US-PATENT-3,447,003	N71-20814*	c 07	NASA-CASE-XNP-01306 US-PATENT-APPL-SN-343426 US-PATENT-CLASS-179-15 US-PATENT-3,364,311
N71-19763*	c 08	NASA-CASE-XAC-06302 US-PATENT-APPL-SN-574284 US-PATENT-CLASS-325-60 US-PATENT-3,456,193	N71-20447*	c 09	NASA-CASE-XLA-02850 US-PATENT-APPL-SN-556784 US-PATENT-CLASS-307-267 US-PATENT-3,473,050	N71-20815*	c 12	NASA-CASE-XMF-01779 US-PATENT-APPL-SN-521999 US-PATENT-CLASS-346-1 US-PATENT-3,357,024
N71-19773*	c 07	NASA-CASE-GSC-10373-1 US-PATENT-APPL-SN-712658 US-PATENT-CLASS-325-4 US-PATENT-3,532,985	N71-20448*	c 10	NASA-CASE-XNP-03744 US-PATENT-APPL-SN-547677 US-PATENT-CLASS-318-314 US-PATENT-3,424,966	N71-20816*	c 09	NASA-CASE-XAC-01677 US-PATENT-APPL-SN-596338 US-PATENT-CLASS-73-147 US-PATENT-3,360,988
N71-19854*	c 07	NASA-CASE-GSC-10553-1 US-PATENT-APPL-SN-820963 US-PATENT-CLASS-343-100 US-PATENT-3,534,365	N71-20461*	c 14	NASA-CASE-XNP-09763 US-PATENT-APPL-SN-600682 US-PATENT-CLASS-117-6 US-PATENT-3,433,662	N71-20834*	c 33	NASA-CASE-XMS-02009 US-PATENT-APPL-SN-455352 US-PATENT-CLASS-141-5 US-PATENT-3,349,814
N71-20268*	c 05	NASA-CASE-XLA-02898 US-PATENT-APPL-SN-429932 US-PATENT-CLASS-128-1 US-PATENT-3,461,855	N71-20491*	c 03	NASA-CASE-XGS-05434 US-PATENT-APPL-SN-667636 US-PATENT-CLASS-136-182 US-PATENT-3,463,673	N71-20841*	c 10	NASA-CASE-XGS-01222 US-PATENT-APPL-SN-354182 US-PATENT-CLASS-325-305 US-PATENT-3,348,152
N71-20273*	c 03	NASA-CASE-NPO-10188 US-PATENT-APPL-SN-681687 US-PATENT-CLASS-244-1 US-PATENT-3,473,758	N71-20492*	c 03	NASA-CASE-XLE-04787 US-PATENT-APPL-SN-551846 US-PATENT-CLASS-136-89 US-PATENT-3,434,885	N71-20842*	c 09	NASA-CASE-XNP-05381 US-PATENT-APPL-SN-568352 US-PATENT-CLASS-338-82 US-PATENT-3,350,671
N71-20330*	c 28	NASA-CASE-XLE-103477-1 US-PATENT-APPL-SN-466390 US-PATENT-CLASS-60-39.36 US-PATENT-3,433,015	N71-20518*	c 24	NASA-CASE-XNP-02592 US-PATENT-APPL-SN-484490 US-PATENT-CLASS-324-33 US-PATENT-3,430,131	N71-20851*	c 09	NASA-CASE-XNP-04732 US-PATENT-APPL-SN-557584 US-PATENT-CLASS-339-177 US-PATENT-3,358,264
N71-20393*	c 15	NASA-CASE-MFS-06074 US-PATENT-APPL-SN-688743 US-PATENT-CLASS-228-9 US-PATENT-3,458,104	N71-20563*	c 25	NASA-CASE-XLA-06232 US-PATENT-APPL-SN-612740 US-PATENT-CLASS-324-58.5 US-PATENT-3,473,116	N71-20852*	c 10	NASA-CASE-XGS-03502 US-PATENT-APPL-SN-584066 US-PATENT-CLASS-331-17 US-PATENT-3,361,985
N71-20395*	c 15	NASA-CASE-XMF-06065 US-PATENT-APPL-SN-665679 US-PATENT-CLASS-219-275 US-PATENT-3,466,424	N71-20569*	c 09	NASA-CASE-XMS-08589-1 US-PATENT-APPL-SN-544899 US-PATENT-CLASS-324-57 US-PATENT-3,434,050	N71-20864*	c 09	NASA-CASE-XGS-03501 US-PATENT-APPL-SN-576521 US-PATENT-CLASS-343-16 US-PATENT-3,359,555
N71-20396*	c 31	NASA-CASE-XMF-08523 US-PATENT-APPL-SN-645563 US-PATENT-CLASS-244-1 US-PATENT-3,465,986	N71-20570*	c 02	NASA-CASE-XAC-08972 US-PATENT-APPL-SN-700174 US-PATENT-CLASS-244-76 US-PATENT-3,472,470	N71-20895*	c 03	NASA-CASE-XNP-00826 US-PATENT-APPL-SN-327163 US-PATENT-CLASS-136-89 US-PATENT-3,346,419
N71-20400*	c 16	NASA-CASE-MFS-11279 US-PATENT-APPL-SN-628094 US-PATENT-CLASS-219-121 US-PATENT-3,472,998	N71-20571*	c 08	NASA-CASE-XGS-04987 US-PATENT-APPL-SN-619908 US-PATENT-CLASS-315-24 US-PATENT-3,437,874	N71-20896*	c 12	NASA-CASE-XNP-02251 US-PATENT-APPL-SN-432030 US-PATENT-CLASS-321-48 US-PATENT-3,337,790
N71-20407*	c 03	NASA-CASE-NPO-10194 US-PATENT-APPL-SN-668249 US-PATENT-CLASS-136-182 US-PATENT-3,460,995	N71-20658*	c 09	NASA-CASE-XMS-03454 US-PATENT-APPL-SN-425363 US-PATENT-CLASS-343-915 US-PATENT-3,360,798	N71-20904*	c 03	NASA-CASE-XLE-01645 US-PATENT-APPL-SN-342574 US-PATENT-CLASS-136-86 US-PATENT-3,357,862
N71-20427*	c 14	NASA-CASE-XMS-13052 US-PATENT-APPL-SN-561223 US-PATENT-CLASS-62-268 US-PATENT-3,455,121	N71-20705*	c 09	NASA-CASE-XMF-01599 US-PATENT-APPL-SN-381940 US-PATENT-CLASS-117-212 US-PATENT-3,359,132	N71-20905*	c 06	NASA-CASE-XMF-02584 US-PATENT-APPL-SN-506135 US-PATENT-CLASS-260-2 US-PATENT-3,346,515
N71-20428*	c 14	NASA-CASE-XGS-04879 US-PATENT-APPL-SN-541399 US-PATENT-CLASS-324-5 US-PATENT-3,443,208	N71-20717*	c 06	NASA-CASE-XMF-04133 US-PATENT-APPL-SN-554949 US-PATENT-CLASS-260-2 US-PATENT-3,354,098	N71-20942*	c 28	NASA-CASE-XNP-04389 US-PATENT-APPL-SN-523511 US-PATENT-CLASS-60-265 US-PATENT-3,353,359
N71-20429*	c 14	NASA-CASE-XLE-05260 US-PATENT-APPL-SN-674355 US-PATENT-CLASS-73-117.4 US-PATENT-3,463,001	N71-20718*	c 05	NASA-CASE-XMS-04625 US-PATENT-APPL-SN-519161 US-PATENT-CLASS-244-122 US-PATENT-3,356,320	N71-21006*	c 14	NASA-CASE-XLA-01832 US-PATENT-APPL-SN-517858 US-PATENT-CLASS-348-50 US-PATENT-3,354,462
N71-20430*	c 14	NASA-CASE-XLA-03645 US-PATENT-APPL-SN-600266 US-PATENT-CLASS-250-83 US-PATENT-3,450,878	N71-20739*	c 15	NASA-CASE-XGS-02011 US-PATENT-APPL-SN-502693 US-PATENT-CLASS-308-9 US-PATENT-3,359,046	N71-21007*	c 14	NASA-CASE-XMS-06236 US-PATENT-APPL-SN-482670 US-PATENT-CLASS-73-290 US-PATENT-3,355,948
N71-20435*	c 14	NASA-CASE-XMS-06767-1 US-PATENT-APPL-SN-716795 US-PATENT-CLASS-73-422 US-PATENT-3,438,263	N71-20740*	c 15	NASA-CASE-XLA-01808 US-PATENT-APPL-SN-571759 US-PATENT-CLASS-74-171 US-PATENT-3,364,777	N71-21042*	c 08	NASA-CASE-XGS-01021 US-PATENT-APPL-SN-279646 US-PATENT-CLASS-340-174.1 US-PATENT-3,327,298
N71-20436*	c 12	NASA-CASE-LAR-11138 US-PATENT-APPL-SN-694317 US-PATENT-CLASS-73-147	N71-20741*	c 14	NASA-CASE-XMS-01618 US-PATENT-APPL-SN-418362 US-PATENT-CLASS-73-29	N71-21045*	c 32	NASA-CASE-XLA-01731 US-PATENT-APPL-SN-425365 US-PATENT-CLASS-52-2

N71-21060*	c 15	US-PATENT-3,364,631	N71-21483*	c 10	US-PATENT-3,345,866	N71-22706*	c 15	US-PATENT-3,341,977
		NASA-CASE-XLA-03660			NASA-CASE-XGS-01155			NASA-CASE-XMS-09310
N71-21064*	c 31	US-PATENT-APPL-SN-482307	N71-21489*	c 15	US-PATENT-APPL-SN-557871	N71-22707*	c 08	US-PATENT-APPL-SN-655724
		US-PATENT-CLASS-95-53			US-PATENT-CLASS-343-16			US-PATENT-CLASS-137-496
N71-21068*	c 18	US-PATENT-3,361,045	N71-21493*	c 28	US-PATENT-3,344,425	N71-22710*	c 08	US-PATENT-3,384,111
		NASA-CASE-XGS-02554			NASA-CASE-XNP-06914			NASA-CASE-XNP-04067
N71-21072*	c 14	US-PATENT-APPL-SN-504266	N71-21507*	c 33	US-PATENT-APPL-SN-590147	N71-22713*	c 15	US-PATENT-APPL-SN-466875
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-85-33			US-PATENT-CLASS-340-172.5
N71-21076*	c 15	US-PATENT-3,350,034	N71-21528*	c 15	US-PATENT-3,352,192	N71-22721*	c 15	US-PATENT-3,369,222
		NASA-CASE-XNP-02888			NASA-CASE-XLA-10450			US-PATENT-3,369,222
N71-21078*	c 15	US-PATENT-APPL-SN-409126	N71-21529*	c 15	US-PATENT-APPL-SN-594587	N71-22722*	c 15	NASA-CASE-XNP-02778
		US-PATENT-CLASS-239-265.11			US-PATENT-CLASS-239-265.19			US-PATENT-APPL-SN-508170
N71-21079*	c 14	US-PATENT-3,347,465	N71-21530*	c 15	US-PATENT-3,347,466	N71-22723*	c 15	US-PATENT-CLASS-340-172.5
		NASA-CASE-XAC-02981			NASA-CASE-XLE-04603			US-PATENT-3,369,223
N71-21082*	c 14	US-PATENT-APPL-SN-464879	N71-21531*	c 15	US-PATENT-APPL-SN-638194	N71-22748*	c 05	NASA-CASE-XLA-03492
		US-PATENT-CLASS-73-398			US-PATENT-CLASS-60-243			US-PATENT-APPL-SN-395348
N71-21088*	c 14	US-PATENT-3,352,157	N71-21536*	c 15	US-PATENT-3,347,046	N71-22749*	c 08	US-PATENT-CLASS-156-60
		NASA-CASE-XMS-03745			NASA-CASE-XLA-01446			US-PATENT-3,342,653
N71-21089*	c 12	US-PATENT-APPL-SN-534295	N71-21583*	c 09	US-PATENT-APPL-SN-400613	N71-22750*	c 07	NASA-CASE-XMF-03212
		US-PATENT-CLASS-24-263			US-PATENT-CLASS-53-102			US-PATENT-APPL-SN-577549
N71-21090*	c 14	US-PATENT-3,346,929	N71-21586*	c 33	US-PATENT-3,336,725	N71-22752*	c 14	US-PATENT-CLASS-55-418
		NASA-CASE-XNP-03459			NASA-CASE-XGS-02422			US-PATENT-3,385,036
N71-21091*	c 14	US-PATENT-APPL-SN-457879	N71-21651*	c 18	US-PATENT-APPL-SN-493943	N71-22765*	c 14	NASA-CASE-XMS-04292
		US-PATENT-CLASS-29-495			US-PATENT-CLASS-74-126			US-PATENT-APPL-SN-517157
N71-21177*	c 15	US-PATENT-3,357,093	N71-21688*	c 21	US-PATENT-3,331,255	N71-22779*	c 15	US-PATENT-CLASS-82-14
		NASA-CASE-XLA-03102			NASA-CASE-XMF-01402			US-PATENT-3,373,640
N71-21179*	c 15	US-PATENT-APPL-SN-576195	N71-21693*	c 25	US-PATENT-APPL-SN-33722	N71-22796*	c 09	NASA-CASE-XMF-01083
		US-PATENT-CLASS-33-31			US-PATENT-APPL-SN-487934			US-PATENT-APPL-SN-432028
N71-21234*	c 15	US-PATENT-3,364,578	N71-21694*	c 25	US-PATENT-CLASS-267-64	N71-22797*	c 15	US-PATENT-CLASS-72-83
		NASA-CASE-XGS-02629			US-PATENT-3,330,549			US-PATENT-3,340,713
N71-21231*	c 15	US-PATENT-APPL-SN-500435	N71-21708*	c 21	US-PATENT-APPL-SN-02341	N71-22875*	c 11	NASA-CASE-XMS-04170
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-52-127			US-PATENT-APPL-SN-482311
N71-21449*	c 09	US-PATENT-3,350,033	N71-21744*	c 15	US-PATENT-3,330,082	N71-22877*	c 15	US-PATENT-CLASS-9-312
		NASA-CASE-XNP-06957			NASA-CASE-XMS-06876			US-PATENT-3,343,189
N71-21473*	c 10	US-PATENT-APPL-SN-406097	N71-21819*	c 27	US-PATENT-APPL-SN-605100	N71-22878*	c 15	NASA-CASE-XNP-02748
		US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-72-34			US-PATENT-APPL-SN-420245
N71-21474*	c 11	US-PATENT-3,348,048	N71-21822*	c 28	US-PATENT-3,345,840	N71-22880*	c 21	US-PATENT-CLASS-340-146.1
		NASA-CASE-XMS-01905			NASA-CASE-XLE-02008			US-PATENT-3,373,404
N71-21475*	c 11	US-PATENT-APPL-SN-280580	N71-21824*	c 26	US-PATENT-APPL-SN-487342	N71-22881*	c 23	NASA-CASE-XNP-01735
		US-PATENT-CLASS-141-91			US-PATENT-CLASS-338-64			US-PATENT-APPL-SN-408438
N71-21476*	c 07	US-PATENT-3,331,404	N71-21881*	c 31	US-PATENT-3,329,918	N71-22882*	c 23	US-PATENT-CLASS-343-786
		NASA-CASE-XLE-00787			NASA-CASE-XLA-01794			US-PATENT-3,373,431
N71-21481*	c 11	US-PATENT-APPL-SN-330210	N71-21882*	c 23	US-PATENT-APPL-SN-464880	N71-22888*	c 09	NASA-CASE-XMF-01974
		US-PATENT-CLASS-324-33			US-PATENT-CLASS-73-86			US-PATENT-APPL-SN-568354
		US-PATENT-3,346,806			US-PATENT-3,357,237			US-PATENT-CLASS-73-419
		NASA-CASE-XNP-02983			NASA-CASE-XMF-01402			US-PATENT-3,383,922
		US-PATENT-APPL-SN-407599			US-PATENT-APPL-SN-328140			NASA-CASE-XLA-00934
		US-PATENT-CLASS-73-88.5			US-PATENT-CLASS-161-68			US-PATENT-APPL-SN-326298
		US-PATENT-3,350,926			US-PATENT-3,346,442			US-PATENT-CLASS-73-84
		NASA-CASE-XAC-06956			NASA-CASE-XMF-00684			US-PATENT-3,339,404
		US-PATENT-APPL-SN-538166			US-PATENT-APPL-SN-260087			NASA-CASE-XNP-01735
		US-PATENT-CLASS-259-71			US-PATENT-CLASS-235-150.25			US-PATENT-APPL-SN-408438
		US-PATENT-3,347,531			US-PATENT-3,331,951			US-PATENT-CLASS-343-786
		NASA-CASE-XLA-01401			NASA-CASE-XLA-03103			US-PATENT-3,373,431
		US-PATENT-APPL-SN-382976			US-PATENT-APPL-SN-531642			NASA-CASE-XMF-01974
		US-PATENT-CLASS-235-61.6			US-PATENT-CLASS-315-111			US-PATENT-APPL-SN-568354
		US-PATENT-3,346,724			US-PATENT-3,333,152			US-PATENT-CLASS-73-419
		NASA-CASE-XKS-02582			NASA-CASE-XLE-02902			US-PATENT-3,383,922
		US-PATENT-APPL-SN-424153			US-PATENT-APPL-SN-485957			NASA-CASE-XLA-00934
		US-PATENT-CLASS-251-172			US-PATENT-CLASS-60-202			US-PATENT-APPL-SN-326298
		US-PATENT-3,327,991			US-PATENT-3,336,748			US-PATENT-CLASS-73-84
		NASA-CASE-XNP-03637			NASA-CASE-XLA-02551			US-PATENT-3,339,404
		US-PATENT-APPL-SN-453232			US-PATENT-APPL-SN-416940			NASA-CASE-XNP-01735
		US-PATENT-CLASS-310-9.1			US-PATENT-CLASS-244-1			US-PATENT-APPL-SN-408438
		US-PATENT-3,359,435			US-PATENT-3,329,375			US-PATENT-CLASS-343-786
		NASA-CASE-XMF-03988			NASA-CASE-XGS-04227			US-PATENT-3,373,431
		US-PATENT-APPL-SN-578923			US-PATENT-APPL-SN-545805			NASA-CASE-XMF-01974
		US-PATENT-CLASS-252-26			US-PATENT-CLASS-74-409			US-PATENT-APPL-SN-568354
		US-PATENT-3,361,666			US-PATENT-3,359,819			US-PATENT-CLASS-73-419
		NASA-CASE-XLA-01262			NASA-CASE-XLE-03494			US-PATENT-3,383,922
		US-PATENT-APPL-SN-386800			US-PATENT-APPL-SN-529593			NASA-CASE-XLA-00934
		US-PATENT-CLASS-156-3			US-PATENT-CLASS-60-251			US-PATENT-APPL-SN-326298
		US-PATENT-3,356,549			US-PATENT-3,345,822			US-PATENT-CLASS-73-84
		NASA-CASE-XMS-01991			NASA-CASE-XNP-01059			US-PATENT-3,339,404
		US-PATENT-APPL-SN-410326			US-PATENT-APPL-SN-393464			NASA-CASE-XNP-01735
		US-PATENT-CLASS-323-22			US-PATENT-CLASS-250-232			US-PATENT-APPL-SN-408438
		US-PATENT-3,344,340			US-PATENT-3,354,320			US-PATENT-CLASS-343-786
		NASA-CASE-XGS-08679			NASA-CASE-XNP-04124			US-PATENT-3,367,224
		US-PATENT-APPL-SN-312443			US-PATENT-APPL-SN-498168			NASA-CASE-XMF-03511
		US-PATENT-CLASS-343-113			US-PATENT-CLASS-60-202			US-PATENT-APPL-SN-540414
		US-PATENT-3,340,532			US-PATENT-3,345,820			US-PATENT-CLASS-90-12
		NASA-CASE-XMS-04798			NASA-CASE-XNP-05429			US-PATENT-3,386,337
		US-PATENT-APPL-SN-480210			US-PATENT-APPL-SN-578928			NASA-CASE-XLA-00188
		US-PATENT-CLASS-35-12			US-PATENT-CLASS-103-1			US-PATENT-APPL-SN-254847
		US-PATENT-3,330,052			US-PATENT-3,361,067			US-PATENT-CLASS-102-49.5
		NASA-CASE-XLA-05378			NASA-CASE-XNP-02595			US-PATENT-3,368,486
		US-PATENT-APPL-SN-484156			US-PATENT-APPL-SN-502709			NASA-CASE-XAC-05333
		US-PATENT-CLASS-73-343			US-PATENT-CLASS-244-1			US-PATENT-APPL-SN-546148
		US-PATENT-3,331,246			US-PATENT-3,333,788			US-PATENT-CLASS-119-15
		NASA-CASE-XNP-00746			NASA-CASE-XNP-03853			US-PATENT-3,367,308
		US-PATENT-APPL-SN-271824			US-PATENT-APPL-SN-578931			NASA-CASE-XMF-10040
		US-PATENT-CLASS-235-181			US-PATENT-CLASS-88-24			US-PATENT-APPL-SN-592680
		US-PATENT-3,359,409			US-PATENT-3,359,855			US-PATENT-CLASS-188-1
		NASA-CASE-XLA-01326			NASA-CASE-XGS-02884			US-PATENT-3,381,778
		US-PATENT-APPL-SN-422097			US-PATENT-APPL-SN-432433			NASA-CASE-XMS-04545
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-51-57			US-PATENT-APPL-SN-508601
								US-PATENT-CLASS-73-144
								US-PATENT-3,381,527
								NASA-CASE-XLA-00793
								US-PATENT-APPL-SN-369334
								US-PATENT-CLASS-88-1
								US-PATENT-3,381,569
								NASA-CASE-XLE-04222
								US-PATENT-APPL-SN-512559
								US-PATENT-CLASS-220-9
								US-PATENT-3,379,330
								NASA-CASE-XLA-03114
								US-PATENT-APPL-SN-440039
								US-PATENT-CLASS-343-708

N71-22890*	c 33	US-PATENT-3,373,430	N71-22993*	c 14	US-PATENT-3,377,845	N71-23037*	c 14	US-PATENT-3,383,903
		NASA-CASE-XLA-07728			NASA-CASE-XMS-05365			NASA-CASE-XAC-01662
		US-PATENT-APPL-SN-538908			US-PATENT-APPL-SN-515484			US-PATENT-APPL-SN-385520
N71-22894*	c 18	US-PATENT-CLASS-165-96	N71-22994*	c 15	US-PATENT-CLASS-310-8.5	N71-23039*	c 14	US-PATENT-CLASS-324-117
		US-PATENT-3,374,830			US-PATENT-3,387,149			US-PATENT-3,365,665
		NASA-CASE-XLE-03925			NASA-CASE-XFR-05421			NASA-CASE-XNP-01659
N71-22895*	c 16	US-PATENT-APPL-SN-514407	N71-22995*	c 14	US-PATENT-APPL-SN-567686	N71-23040*	c 14	US-PATENT-APPL-SN-410332
		US-PATENT-CLASS-75-204			US-PATENT-CLASS-24-126			US-PATENT-CLASS-136-230
		US-PATENT-3,337,337			US-PATENT-3,378,892			US-PATENT-3,377,208
N71-22896*	c 05	NASA-CASE-XMS-04269	N71-22996*	c 14	NASA-CASE-XNP-08680	N71-23041*	c 14	NASA-CASE-XNP-05535
		US-PATENT-APPL-SN-516793			US-PATENT-APPL-SN-562444			US-PATENT-APPL-SN-487939
		US-PATENT-CLASS-250-199			US-PATENT-CLASS-73-9			US-PATENT-CLASS-244-1
N71-22897*	c 08	US-PATENT-3,341,708	N71-22997*	c 15	US-PATENT-3,376,730	N71-23042*	c 11	US-PATENT-3,339,863
		NASA-CASE-XMS-02399			NASA-CASE-XGS-01331			NASA-CASE-XNP-01056
		US-PATENT-APPL-SN-492344			US-PATENT-APPL-SN-445807			US-PATENT-APPL-SN-377146
N71-22897*	c 08	US-PATENT-CLASS-128-2.06	N71-22997*	c 15	US-PATENT-CLASS-250-218	N71-23042*	c 11	US-PATENT-CLASS-250-41.9
		US-PATENT-3,384,075			US-PATENT-3,388,258			US-PATENT-3,340,395
		NASA-CASE-XNP-01753			NASA-CASE-XNP-01641			NASA-CASE-XMS-02930
N71-22961*	c 10	US-PATENT-APPL-SN-423412	N71-22998*	c 18	US-PATENT-APPL-SN-464885	N71-23043*	c 26	US-PATENT-APPL-SN-417253
		US-PATENT-CLASS-235-92			US-PATENT-CLASS-308-10			US-PATENT-CLASS-250-52
		US-PATENT-3,374,339			US-PATENT-3,378,315			US-PATENT-3,340,397
N71-22962*	c 10	NASA-CASE-XMS-02159	N71-22999*	c 09	NASA-CASE-XGS-02435	N71-23046*	c 17	NASA-CASE-XNP-01959
		US-PATENT-APPL-SN-534564			US-PATENT-APPL-SN-392965			US-PATENT-APPL-SN-410330
		US-PATENT-CLASS-323-56			US-PATENT-CLASS-106-40			US-PATENT-CLASS-136-89
N71-22962*	c 10	US-PATENT-3,365,657	N71-22999*	c 09	US-PATENT-3,382,082	N71-23046*	c 17	US-PATENT-3,396,057
		NASA-CASE-XGS-05441			NASA-CASE-XLA-00781			NASA-CASE-XNP-04338
		US-PATENT-APPL-SN-505321			US-PATENT-APPL-SN-307271			US-PATENT-APPL-SN-461765
N71-22964*	c 14	US-PATENT-CLASS-328-233	N71-23001*	c 07	US-PATENT-CLASS-88-14	N71-23047*	c 18	US-PATENT-CLASS-29-182.2
		US-PATENT-3,366,886			US-PATENT-3,364,813			US-PATENT-3,421,864
		NASA-CASE-XLE-02024			NASA-CASE-XGS-01812			NASA-CASE-XLA-01995
N71-22965*	c 14	US-PATENT-APPL-SN-422099	N71-23006*	c 03	US-PATENT-APPL-SN-392973	N71-23048*	c 15	US-PATENT-APPL-SN-411945
		US-PATENT-CLASS-73-15			US-PATENT-CLASS-340-174.1			US-PATENT-CLASS-148-6.16
		US-PATENT-3,365,930			US-PATENT-3,380,042			US-PATENT-3,395,053
N71-22965*	c 14	NASA-CASE-XGS-02319	N71-23006*	c 03	NASA-CASE-XGS-02631	N71-23048*	c 15	NASA-CASE-XNP-03972
		US-PATENT-APPL-SN-496205			US-PATENT-APPL-SN-425972			US-PATENT-APPL-SN-502710
		US-PATENT-CLASS-73-117			US-PATENT-CLASS-136-133			US-PATENT-CLASS-184-1
N71-22968*	c 31	US-PATENT-3,365,941	N71-23007*	c 02	US-PATENT-3,340,099	N71-23049*	c 15	US-PATENT-3,367,445
		NASA-CASE-XLA-02050			NASA-CASE-XMF-04163			NASA-CASE-XMF-01049
		US-PATENT-APPL-SN-568067			US-PATENT-APPL-SN-424156			US-PATENT-APPL-SN-506137
N71-22969*	c 31	US-PATENT-CLASS-244-1	N71-23008*	c 31	US-PATENT-CLASS-73-189	N71-23050*	c 15	US-PATENT-CLASS-339-5
		US-PATENT-3,386,685			US-PATENT-3,340,732			US-PATENT-3,375,479
		NASA-CASE-XLA-03132			NASA-CASE-XLA-04804			NASA-CASE-XMF-01730
N71-22969*	c 31	US-PATENT-APPL-SN-610728	N71-23008*	c 31	US-PATENT-APPL-SN-577546	N71-23050*	c 15	US-PATENT-APPL-SN-517869
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-102-49.5			US-PATENT-CLASS-228-8
		US-PATENT-3,386,686			US-PATENT-3,384,016			US-PATENT-3,373,914
N71-22974*	c 03	NASA-CASE-XGS-02630	N71-23009*	c 31	NASA-CASE-XGS-02607	N71-23051*	c 15	NASA-CASE-XAC-01158
		US-PATENT-APPL-SN-494287			US-PATENT-APPL-SN-474531			US-PATENT-APPL-SN-420250
		US-PATENT-CLASS-136-132			US-PATENT-CLASS-244-1			US-PATENT-CLASS-137-625.5
N71-22975*	c 06	US-PATENT-3,382,107	N71-23015*	c 09	US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564
		NASA-CASE-XNP-07659			NASA-CASE-XGS-02751			NASA-CASE-XLA-03497
		US-PATENT-APPL-SN-567806			US-PATENT-APPL-SN-491059			US-PATENT-APPL-SN-392992
N71-22975*	c 06	US-PATENT-CLASS-18-26	N71-23015*	c 09	US-PATENT-CLASS-307-288	N71-23052*	c 15	US-PATENT-CLASS-156-285
		US-PATENT-3,381,339			US-PATENT-3,374,366			US-PATENT-3,373,069
		NASA-CASE-XLA-02809			NASA-CASE-XAC-02807			NASA-CASE-XLE-02531
N71-22982*	c 15	US-PATENT-APPL-SN-554897	N71-23021*	c 09	US-PATENT-APPL-SN-456581	N71-23080*	c 05	US-PATENT-APPL-SN-425096
		US-PATENT-CLASS-308-176			US-PATENT-CLASS-324-120			US-PATENT-CLASS-312-1
		US-PATENT-3,397,932			US-PATENT-3,384,820			US-PATENT-3,337,279
N71-22983*	c 28	NASA-CASE-XMF-06926	N71-23022*	c 15	NASA-CASE-XMS-01625	N71-23081*	c 28	NASA-CASE-XNP-02923
		US-PATENT-APPL-SN-537615			US-PATENT-APPL-SN-418933			US-PATENT-APPL-SN-494280
		US-PATENT-CLASS-60-258			US-PATENT-CLASS-136-86			US-PATENT-CLASS-60-202
N71-22984*	c 07	US-PATENT-3,336,754	N71-23023*	c 15	US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114
		NASA-CASE-XMS-04312			NASA-CASE-XMF-04042			NASA-CASE-XLA-01219
		US-PATENT-APPL-SN-521754			US-PATENT-APPL-SN-605518			US-PATENT-APPL-SN-402978
N71-22985*	c 09	US-PATENT-CLASS-343-708	N71-23024*	c 15	US-PATENT-CLASS-55-204	N71-23085*	c 33	US-PATENT-CLASS-332-1
		US-PATENT-3,384,895			US-PATENT-3,397,512			US-PATENT-3,366,894
		NASA-CASE-XMF-03934			NASA-CASE-XNP-01747			NASA-CASE-XFR-03802
N71-22985*	c 09	US-PATENT-APPL-SN-530958	N71-23024*	c 15	US-PATENT-APPL-SN-413661	N71-23085*	c 33	US-PATENT-APPL-SN-460877
		US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-251-148			US-PATENT-CLASS-73-190
		US-PATENT-3,379,885			US-PATENT-3,341,169			US-PATENT-3,367,182
N71-22986*	c 10	NASA-CASE-XMF-01892	N71-23025*	c 15	NASA-CASE-XNP-08877	N71-23086*	c 15	NASA-CASE-XMS-04533
		US-PATENT-APPL-SN-464878			US-PATENT-APPL-SN-574282			US-PATENT-APPL-SN-557016
		US-PATENT-CLASS-328-167			US-PATENT-CLASS-62-6			US-PATENT-CLASS-202-234
N71-22987*	c 09	US-PATENT-3,375,451	N71-23026*	c 07	US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117
		NASA-CASE-XLE-04788			NASA-CASE-XNP-02791			NASA-CASE-XNP-03918
		US-PATENT-APPL-SN-537617			US-PATENT-APPL-SN-390251			US-PATENT-APPL-SN-510475
N71-22987*	c 09	US-PATENT-CLASS-313-352	N71-23026*	c 07	US-PATENT-CLASS-178-6	N71-23087*	c 14	US-PATENT-CLASS-73-88.5
		US-PATENT-3,396,303			US-PATENT-3,383,461			US-PATENT-3,388,590
		NASA-CASE-XGS-03304			NASA-CASE-XNP-01960			NASA-CASE-XNP-00597
N71-22988*	c 09	US-PATENT-APPL-SN-483886	N71-23027*	c 09	US-PATENT-APPL-SN-438135	N71-23088*	c 18	US-PATENT-APPL-SN-410325
		US-PATENT-CLASS-73-1			US-PATENT-CLASS-29-572			US-PATENT-CLASS-65-7
		US-PATENT-3,381,517			US-PATENT-3,340,599			US-PATENT-3,337,315
N71-22989*	c 14	NASA-CASE-XLA-01551	N71-23029*	c 10	NASA-CASE-XGS-03427	N71-23092*	c 14	NASA-CASE-XLA-01530
		US-PATENT-APPL-SN-422092			US-PATENT-APPL-SN-500446			US-PATENT-APPL-SN-420466
		US-PATENT-CLASS-73-190			US-PATENT-CLASS-307-265			US-PATENT-CLASS-188-1
N71-22990*	c 14	US-PATENT-3,382,714	N71-23030*	c 11	US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004
		NASA-CASE-XMS-04201			NASA-CASE-XNP-03578			NASA-CASE-XLE-03280
		US-PATENT-APPL-SN-507254			US-PATENT-APPL-SN-445292			US-PATENT-APPL-SN-517156
N71-22991*	c 14	US-PATENT-CLASS-324-70	N71-23030*	c 11	US-PATENT-CLASS-73-147	N71-23093*	c 14	US-PATENT-CLASS-73-400
		US-PATENT-3,379,974			US-PATENT-3,342,066			US-PATENT-3,379,064
		NASA-CASE-XLA-01791			NASA-CASE-XNP-01318			NASA-CASE-XMS-06064
N71-22991*	c 14	US-PATENT-APPL-SN-462763	N71-23033*	c 10	US-PATENT-APPL-SN-380965	N71-23098*	c 05	US-PATENT-APPL-SN-563646
		US-PATENT-CLASS-250-227			US-PATENT-CLASS-340-174			US-PATENT-CLASS-2-14
		US-PATENT-3,397,318			US-PATENT-3,386,387			US-PATENT-3,378,851
N71-22992*	c 14	NASA-CASE-XGS-01023	N71-23036*	c 14	NASA-CASE-XNP-01660	N71-23097*	c 09	NASA-CASE-XNP-02140
		US-PATENT-APPL-SN-446131			US-PATENT-APPL-SN-578916			US-PATENT-APPL-SN-440036
		US-PATENT-CLASS-73-65			US-PATENT-CLASS-73-4			US-PATENT-CLASS-330-61

N71-23098*	c 07	US-PATENT-3,337,812 NASA-CASE-XGS-00740 US-PATENT-APPL-SN-353644 US-PATENT-CLASS-325-305 US-PATENT-3,341,778	N71-23269*	c 14	US-PATENT-3,419,329 NASA-CASE-XLA-01584 US-PATENT-APPL-SN-416943 US-PATENT-CLASS-250-203 US-PATENT-3,389,260	N71-23544*	c 10	US-PATENT-3,393,347 NASA-CASE-XNP-05382 US-PATENT-APPL-SN-536217 US-PATENT-CLASS-332-19 US-PATENT-3,393,380
N71-23099*	c 10	NASA-CASE-XNP-08875 US-PATENT-APPL-SN-640455 US-PATENT-CLASS-343-6.5 US-PATENT-3,380,049	N71-23270*	c 09	NASA-CASE-XMS-04919 US-PATENT-APPL-SN-516155 US-PATENT-CLASS-307-263 US-PATENT-3,417,266	N71-23545*	c 09	NASA-CASE-XMF-04367 US-PATENT-APPL-SN-457874 US-PATENT-CLASS-307-235 US-PATENT-3,404,289
N71-23159*	c 05	NASA-CASE-XMF-06589 US-PATENT-APPL-SN-543206 US-PATENT-CLASS-5-82 US-PATENT-3,343,180	N71-23271*	c 10	NASA-CASE-XNP-00952 US-PATENT-APPL-SN-388967 US-PATENT-CLASS-317-148.5 US-PATENT-3,417,298	N71-23548*	c 09	NASA-CASE-XNP-06507 US-PATENT-APPL-SN-605099 US-PATENT-CLASS-333-98 US-PATENT-3,419,827
N71-23161*	c 05	NASA-CASE-XAC-07043 US-PATENT-APPL-SN-566397 US-PATENT-CLASS-2-2.1 US-PATENT-3,405,406	N71-23289*	c 21	NASA-CASE-XMF-01669 US-PATENT-APPL-SN-399419 US-PATENT-CLASS-74-5.47 US-PATENT-3,415,126	N71-23573*	c 09	NASA-CASE-XGS-01418 US-PATENT-APPL-SN-392969 US-PATENT-CLASS-333-73 US-PATENT-3,393,384
N71-23174*	c 14	NASA-CASE-XGS-02610 US-PATENT-APPL-SN-491054 US-PATENT-CLASS-321-60 US-PATENT-3,417,316	N71-23292*	c 26	NASA-CASE-XLE-10715 US-PATENT-APPL-SN-603397 US-PATENT-CLASS-252-62.3 US-PATENT-3,409,554	N71-23598*	c 09	NASA-CASE-XER-11019 US-PATENT-APPL-SN-711971 US-PATENT-CLASS-331-78 US-PATENT-3,470,489
N71-23175*	c 14	NASA-CASE-XKS-03509 US-PATENT-APPL-SN-566392 US-PATENT-CLASS-356-166 US-PATENT-3,414,358	N71-23293*	c 28	NASA-CASE-XNP-06942 US-PATENT-APPL-SN-563651 US-PATENT-CLASS-60-202 US-PATENT-3,412,559	N71-23599*	c 22	NASA-CASE-XLE-01903 US-PATENT-APPL-SN-466868 US-PATENT-CLASS-310-4 US-PATENT-3,393,330
N71-23185*	c 04	NASA-CASE-XAC-05422 US-PATENT-APPL-SN-483885 US-PATENT-CLASS-128-2.05 US-PATENT-3,412,729	N71-23295*	c 08	NASA-CASE-XNP-04819 US-PATENT-APPL-SN-502701 US-PATENT-CLASS-340-146.2 US-PATENT-3,390,378	N71-23654*	c 26	NASA-CASE-XLE-02798 US-PATENT-APPL-SN-660571 US-PATENT-CLASS-148-1.5 US-PATENT-3,390,020
N71-23187*	c 03	NASA-CASE-XGS-03390 US-PATENT-APPL-SN-551182 US-PATENT-CLASS-136-89 US-PATENT-3,419,433	N71-23311*	c 09	NASA-CASE-XGS-03632 US-PATENT-APPL-SN-502739 US-PATENT-CLASS-307-260 US-PATENT-3,390,282	N71-23658*	c 18	NASA-CASE-XLE-02647 US-PATENT-APPL-SN-430226 US-PATENT-CLASS-220-9 US-PATENT-3,392,864
N71-23188*	c 09	NASA-CASE-XMF-14301 US-PATENT-APPL-SN-697341 US-PATENT-CLASS-321-2 US-PATENT-3,470,446	N71-23315*	c 10	NASA-CASE-XLA-03356 US-PATENT-APPL-SN-536216 US-PATENT-CLASS-307-234 US-PATENT-3,448,290	N71-23662*	c 10	NASA-CASE-XGS-01118 US-PATENT-APPL-SN-408442 US-PATENT-CLASS-235-154 US-PATENT-3,399,299
N71-23189*	c 09	NASA-CASE-XNP-06028 US-PATENT-APPL-SN-649356 US-PATENT-CLASS-315-26 US-PATENT-3,431,460	N71-23316*	c 09	NASA-CASE-XMS-09352 US-PATENT-APPL-SN-564919 US-PATENT-CLASS-323-22 US-PATENT-3,417,321	N71-23663*	c 10	NASA-CASE-XKS-04631 US-PATENT-APPL-SN-663180 US-PATENT-CLASS-200-82 US-PATENT-3,433,909
N71-23190*	c 09	NASA-CASE-XLE-04501 US-PATENT-APPL-SN-522794 US-PATENT-CLASS-313-231 US-PATENT-3,413,510	N71-23317*	c 05	NASA-CASE-XMS-06061 US-PATENT-APPL-SN-605092 US-PATENT-CLASS-307-260 US-PATENT-3,467,837	N71-23669*	c 10	NASA-CASE-XAC-10607 US-PATENT-APPL-SN-694345 US-PATENT-CLASS-331-111 US-PATENT-3,470,495
N71-23191*	c 09	NASA-CASE-XMS-05890 US-PATENT-APPL-SN-650166 US-PATENT-CLASS-137-554 US-PATENT-3,414,012	N71-23336*	c 03	NASA-CASE-XGS-01513 US-PATENT-APPL-SN-502756 US-PATENT-CLASS-136-166 US-PATENT-3,390,017	N71-23698*	c 14	NASA-CASE-XGS-08259 US-PATENT-APPL-SN-666551 US-PATENT-CLASS-242-192 US-PATENT-3,460,781
N71-23225*	c 14	NASA-CASE-XNP-04817 US-PATENT-APPL-SN-516152 US-PATENT-CLASS-73-12 US-PATENT-3,412,598	N71-23354*	c 03	NASA-CASE-XLE-04535 US-PATENT-APPL-SN-588671 US-PATENT-CLASS-250-212 US-PATENT-3,437,818	N71-23699*	c 14	NASA-CASE-XMF-10289 US-PATENT-APPL-SN-674356 US-PATENT-CLASS-324-72 US-PATENT-3,470,466
N71-23226*	c 14	NASA-CASE-XNP-06509 US-PATENT-APPL-SN-570095 US-PATENT-CLASS-73-194 US-PATENT-3,411,356	N71-23365*	c 17	NASA-CASE-XNP-03063 US-PATENT-APPL-SN-521994 US-PATENT-CLASS-75-172 US-PATENT-3,413,115	N71-23710*	c 18	NASA-CASE-XLE-08511 US-PATENT-APPL-SN-635972 US-PATENT-CLASS-29-182.1 US-PATENT-3,419,363
N71-23227*	c 14	NASA-CASE-XMF-06515 US-PATENT-APPL-SN-548808 US-PATENT-CLASS-73-432 US-PATENT-3,408,870	N71-23401*	c 14	NASA-CASE-XGS-03230 US-PATENT-APPL-SN-517158 US-PATENT-CLASS-250-83 US-PATENT-3,419,992	N71-23723*	c 30	NASA-CASE-XNP-09832 US-PATENT-APPL-SN-632163 US-PATENT-CLASS-343-100 US-PATENT-3,417,399
N71-23230*	c 06	NASA-CASE-XMF-06409 US-PATENT-APPL-SN-575930 US-PATENT-CLASS-260-448.2 US-PATENT-3,433,818	N71-23405*	c 07	NASA-CASE-XGS-01537 US-PATENT-APPL-SN-432026 US-PATENT-CLASS-325-163 US-PATENT-3,417,332	N71-23725*	c 14	NASA-CASE-XGS-01013 US-PATENT-APPL-SN-665209 US-PATENT-CLASS-73-133 US-PATENT-3,460,381
N71-23239*	c 03	NASA-CASE-XMF-08217 US-PATENT-APPL-SN-688807 US-PATENT-CLASS-321-2 US-PATENT-3,470,443	N71-23443*	c 09	NASA-CASE-XLE-02823 US-PATENT-APPL-SN-491058 US-PATENT-CLASS-310-10 US-PATENT-3,393,332	N71-23726*	c 14	NASA-CASE-XMF-05224 US-PATENT-APPL-SN-660842 US-PATENT-CLASS-73-189 US-PATENT-3,465,584
N71-23240*	c 14	NASA-CASE-XLA-00941 US-PATENT-APPL-SN-508873 US-PATENT-CLASS-250-227 US-PATENT-3,407,304	N71-23449*	c 03	NASA-CASE-XLE-08569 US-PATENT-APPL-SN-641420 US-PATENT-CLASS-136-89 US-PATENT-3,472,698	N71-23755*	c 14	NASA-CASE-XMF-04134 US-PATENT-APPL-SN-610723 US-PATENT-CLASS-73-4 US-PATENT-3,472,059
N71-23248*	c 17	NASA-CASE-XLE-03629 US-PATENT-APPL-SN-554950 US-PATENT-CLASS-75-170 US-PATENT-3,415,643	N71-23497*	c 01	NASA-CASE-XLA-01486 US-PATENT-APPL-SN-484485 US-PATENT-CLASS-244-13 US-PATENT-3,392,936	N71-23790*	c 14	NASA-CASE-XAC-04885 US-PATENT-APPL-SN-573432 US-PATENT-CLASS-73-141 US-PATENT-3,415,116
N71-23254*	c 15	NASA-CASE-XFR-05302 US-PATENT-APPL-SN-685463 US-PATENT-CLASS-85-7 US-PATENT-3,443,472	N71-23499*	c 06	NASA-CASE-XNP-03835 US-PATENT-APPL-SN-456874 US-PATENT-CLASS-44-77 US-PATENT-3,393,059	N71-23797*	c 14	NASA-CASE-XNP-06510 US-PATENT-APPL-SN-562445 US-PATENT-CLASS-250-203 US-PATENT-3,417,247
N71-23255*	c 15	NASA-CASE-XMS-07487 US-PATENT-APPL-SN-580365 US-PATENT-CLASS-244-83 US-PATENT-3,409,252	N71-23500*	c 06	NASA-CASE-XNP-03250 US-PATENT-APPL-SN-485058 US-PATENT-CLASS-260-85.5 US-PATENT-3,419,537	N71-23798*	c 15	NASA-CASE-XMF-02330 US-PATENT-APPL-SN-608944 US-PATENT-CLASS-219-130 US-PATENT-3,469,069
N71-23256*	c 15	NASA-CASE-XMF-03290 US-PATENT-APPL-SN-479353 US-PATENT-CLASS-53-22 US-PATENT-3,415,032	N71-23525*	c 09	NASA-CASE-XGS-02317 US-PATENT-APPL-SN-576183 US-PATENT-CLASS-328-61 US-PATENT-3,464,018	N71-23809*	c 15	NASA-CASE-XAC-10019 US-PATENT-APPL-SN-686209 US-PATENT-CLASS-74-89.18 US-PATENT-3,472,086
N71-23267*	c 14	NASA-CASE-XLE-04026 US-PATENT-APPL-SN-617770 US-PATENT-CLASS-13-26 US-PATENT-3,470,304	N71-23527*	c 06	NASA-CASE-XLE-01997 US-PATENT-APPL-SN-427990 US-PATENT-CLASS-23-230 US-PATENT-3,472,625	N71-23810*	c 15	NASA-CASE-XLE-05033 US-PATENT-APPL-SN-510474 US-PATENT-CLASS-252-12 US-PATENT-3,466,243
N71-23268*	c 14	NASA-CASE-XLA-01907 US-PATENT-APPL-SN-335441 US-PATENT-CLASS-356-72	N71-23543*	c 10	NASA-CASE-XMS-00913 US-PATENT-APPL-SN-416945 US-PATENT-CLASS-317-31	N71-23811*	c 15	NASA-CASE-XNP-05297 US-PATENT-APPL-SN-640458 US-PATENT-CLASS-72-354

N71-23812*	c 15	US-PATENT-3,443,412 NASA-CASE-XMF-07808 US-PATENT-APPL-SN-684178 US-PATENT-CLASS-308-2 US-PATENT-3,463,563	N71-24232*	c 14	US-PATENT-3,434,855 NASA-CASE-XAC-04458 US-PATENT-APPL-SN-534975 US-PATENT-CLASS-73-400 US-PATENT-3,392,586	N71-24623*	c 05	US-PATENT-CLASS-324-77 US-PATENT-3,548,107 NASA-CASE-XMS-09635 US-PATENT-APPL-SN-586329 US-PATENT-CLASS-2-2.1 US-PATENT-3,516,091
N71-23815*	c 15	NASA-CASE-XMF-07069 US-PATENT-APPL-SN-672382 US-PATENT-CLASS-219-125 US-PATENT-3,469,068	N71-24233*	c 14	NASA-CASE-XGS-04478 US-PATENT-APPL-SN-566717 US-PATENT-CLASS-73-88.5 US-PATENT-3,460,378	N71-24624*	c 07	NASA-CASE-GSC-10131-1 US-PATENT-APPL-SN-754055 US-PATENT-CLASS-340-172.5 US-PATENT-3,546,684
N71-23816*	c 15	NASA-CASE-XLE-03803 US-PATENT-APPL-SN-505765 US-PATENT-CLASS-220-9 US-PATENT-3,392,865	N71-24234*	c 14	NASA-CASE-XMF-10968 US-PATENT-APPL-SN-644447 US-PATENT-CLASS-73-15.6 US-PATENT-3,469,437	N71-24625*	c 07	NASA-CASE-XMS-09610 US-PATENT-APPL-SN-766170 US-PATENT-CLASS-343-113 US-PATENT-3,540,054
N71-23817*	c 15	NASA-CASE-XLE-06773 US-PATENT-APPL-SN-646124 US-PATENT-CLASS-72-467 US-PATENT-3,469,436	N71-24276*	c 33	NASA-CASE-XLA-02059 US-PATENT-APPL-SN-576182 US-PATENT-CLASS-165-12 US-PATENT-3,406,742	N71-24633*	c 08	NASA-CASE-NPO-10567 US-PATENT-APPL-SN-679055 US-PATENT-CLASS-235-153 US-PATENT-3,517,171
N71-23828*	c 17	NASA-CASE-XMF-02303 US-PATENT-APPL-SN-453229 US-PATENT-CLASS-148-6.20 US-PATENT-3,416,975	N71-24285*	c 32	NASA-CASE-XMF-02392 US-PATENT-APPL-SN-596735 US-PATENT-CLASS-73-49.2 US-PATENT-3,399,574	N71-24650*	c 08	NASA-CASE-NPO-10150 US-PATENT-APPL-SN-660843 US-PATENT-CLASS-340-347 US-PATENT-3,537,103
N71-23912*	c 31	NASA-CASE-XMF-05941 US-PATENT-APPL-SN-653277 US-PATENT-CLASS-244-1 US-PATENT-3,443,773	N71-24315*	c 31	NASA-CASE-XLA-04901 US-PATENT-APPL-SN-586325 US-PATENT-CLASS-244-1 US-PATENT-3,405,887	N71-24679*	c 15	NASA-CASE-XNP-10475 US-PATENT-APPL-SN-763868 US-PATENT-CLASS-72-369 US-PATENT-3,546,917
N71-23968*	c 28	NASA-CASE-XLE-04857 US-PATENT-APPL-SN-621742 US-PATENT-CLASS-239-127.1 US-PATENT-3,460,759	N71-24321*	c 28	NASA-CASE-XNP-03692 US-PATENT-APPL-SN-640787 US-PATENT-CLASS-60-263 US-PATENT-3,443,384	N71-24681*	c 03	NASA-CASE-XLE-08569-2 US-PATENT-APPL-SN-829825 US-PATENT-CLASS-29-572 US-PATENT-3,541,679
N71-23971*	c 32	NASA-CASE-XAC-05632 US-PATENT-APPL-SN-568355 US-PATENT-CLASS-244-77 US-PATENT-3,412,961	N71-24583*	c 07	NASA-CASE-NPO-10096 US-PATENT-APPL-SN-730700 US-PATENT-CLASS-329-140 US-PATENT-3,533,001	N71-24692*	c 12	NASA-CASE-XFR-02007 US-PATENT-APPL-SN-378080 US-PATENT-CLASS-73-389 US-PATENT-3,273,399
N71-23976*	c 23	NASA-CASE-XLA-01987 US-PATENT-APPL-SN-542713 US-PATENT-CLASS-346-107 US-PATENT-3,392,403	N71-24595*	c 09	NASA-CASE-GSC-10021-1 US-PATENT-APPL-SN-790420 US-PATENT-CLASS-343-7.5 US-PATENT-3,540,045	N71-24693*	c 14	NASA-CASE-XMF-04415 US-PATENT-APPL-SN-644446 US-PATENT-CLASS-33-174 US-PATENT-3,360,864
N71-24035*	c 31	NASA-CASE-XLA-01027 US-PATENT-APPL-SN-494283 US-PATENT-CLASS-52-272 US-PATENT-3,416,274	N71-24596*	c 09	NASA-CASE-XNP-01306-2 US-PATENT-APPL-SN-684083 US-PATENT-CLASS-328-133 US-PATENT-3,509,475	N71-24694*	c 15	NASA-CASE-GSC-10306-1 US-PATENT-APPL-SN-789278 US-PATENT-CLASS-248-358 US-PATENT-3,537,672
N71-24042*	c 15	NASA-CASE-XNP-04731 US-PATENT-APPL-SN-534966 US-PATENT-CLASS-103-48 US-PATENT-3,367,271	N71-24597*	c 09	NASA-CASE-ARC-10132-1 US-PATENT-APPL-SN-759460 US-PATENT-CLASS-73-398 US-PATENT-3,545,275	N71-24695*	c 15	NASA-CASE-XNP-06936 US-PATENT-APPL-SN-640786 US-PATENT-CLASS-318-382 US-PATENT-3,487,281
N71-24043*	c 15	NASA-CASE-XKS-03338 US-PATENT-APPL-SN-547072 US-PATENT-CLASS-89-1.806 US-PATENT-3,415,156	N71-24599*	c 15	NASA-CASE-MS-12052-1 US-PATENT-APPL-SN-770371 US-PATENT-CLASS-254-150 US-PATENT-CLASS-254-173 US-PATENT-CLASS-254-186	N71-24696*	c 15	NASA-CASE-NPO-10173 US-PATENT-APPL-SN-796360 US-PATENT-CLASS-310-101 US-PATENT-3,535,570
N71-24044*	c 15	NASA-CASE-XMF-06888 US-PATENT-APPL-SN-591000 US-PATENT-CLASS-62-40 US-PATENT-3,415,069	N71-24600*	c 15	NASA-CASE-XGS-08718 US-PATENT-APPL-SN-785611 US-PATENT-CLASS-244-1 US-PATENT-CLASS-244-150 US-PATENT-CLASS-74-2 US-PATENT-CLASS-89-1.5 US-PATENT-CLASS-9-9 US-PATENT-3,540,676	N71-24717*	c 09	NASA-CASE-XMF-08804 US-PATENT-APPL-SN-683606 US-PATENT-CLASS-324-181 US-PATENT-3,543,159
N71-24045*	c 15	NASA-CASE-XGS-04548 US-PATENT-APPL-SN-672383 US-PATENT-CLASS-74-100 US-PATENT-3,460,397	N71-24605*	c 03	NASA-CASE-XNP-04758 US-PATENT-APPL-SN-557861 US-PATENT-CLASS-320-427 US-PATENT-3,413,536	N71-24718*	c 03	NASA-CASE-MS-10960-1 US-PATENT-APPL-SN-751198 US-PATENT-CLASS-204-305 US-PATENT-3,547,801
N71-24046*	c 15	NASA-CASE-XLE-10337 US-PATENT-APPL-SN-594633 US-PATENT-CLASS-252-26 US-PATENT-3,391,080	N71-24606*	c 05	NASA-CASE-XKS-10804 US-PATENT-APPL-SN-691909 US-PATENT-CLASS-35-17 US-PATENT-3,508,347	N71-24719*	c 03	NASA-CASE-GSC-10487-1 US-PATENT-APPL-SN-828983 US-PATENT-CLASS-320-39 US-PATENT-3,541,422
N71-24047*	c 15	NASA-CASE-XGS-03120 US-PATENT-APPL-SN-485958 US-PATENT-CLASS-156-3 US-PATENT-3,470,043	N71-24607*	c 06	NASA-CASE-XNP-09699 US-PATENT-APPL-SN-711972 US-PATENT-CLASS-73-17 US-PATENT-3,546,920	N71-24725*	c 23	NASA-CASE-GSC-10188-1 US-PATENT-APPL-SN-791888 US-PATENT-CLASS-62-384 US-PATENT-3,545,226
N71-24074*	c 16	NASA-CASE-XLA-03375 US-PATENT-APPL-SN-512562 US-PATENT-CLASS-356-104 US-PATENT-3,446,558	N71-24612*	c 07	NASA-CASE-XMF-06092 US-PATENT-APPL-SN-550088 US-PATENT-CLASS-178-7.1 US-PATENT-3,470,318	N71-24728*	c 05	NASA-CASE-MS-12243-1 US-PATENT-APPL-SN-857445 US-PATENT-CLASS-244-1 US-PATENT-3,537,668
N71-24142*	c 17	NASA-CASE-XLE-06969 US-PATENT-APPL-SN-655675 US-PATENT-CLASS-148-126 US-PATENT-3,463,679	N71-24613*	c 07	NASA-CASE-NPO-10851 US-PATENT-APPL-SN-805406 US-PATENT-CLASS-325-325 US-PATENT-3,551,816	N71-24729*	c 05	NASA-CASE-MS-13282-1 US-PATENT-APPL-SN-8498 US-PATENT-CLASS-128-2.1 US-PATENT-3,548,812
N71-24145*	c 33	NASA-CASE-XLE-03432 US-PATENT-APPL-SN-559349 US-PATENT-CLASS-13-35 US-PATENT-3,409,730	N71-24614*	c 07	NASA-CASE-XKS-09340 US-PATENT-APPL-SN-666555 US-PATENT-CLASS-343-703 US-PATENT-3,540,056	N71-24730*	c 05	NASA-CASE-XMS-09637-1 US-PATENT-APPL-SN-785710 US-PATENT-CLASS-2-2.1 US-PATENT-3,537,107
N71-24147*	c 05	NASA-CASE-XMS-10269 US-PATENT-APPL-SN-590158 US-PATENT-CLASS-165-46 US-PATENT-3,425,486	N71-24618*	c 09	NASA-CASE-FRC-10029 US-PATENT-APPL-SN-760389 US-PATENT-CLASS-128-2.06 US-PATENT-3,547,105	N71-24736*	c 28	NASA-CASE-XLE-03157 US-PATENT-APPL-SN-591014 US-PATENT-CLASS-60-240 US-PATENT-3,408,816
N71-24164*	c 15	NASA-CASE-XLA-01494 US-PATENT-APPL-SN-499122 US-PATENT-CLASS-156-545 US-PATENT-3,416,988	N71-24621*	c 07	NASA-CASE-GSC-10118-1 US-PATENT-APPL-SN-783375 US-PATENT-CLASS-179-15 US-PATENT-CLASS-325-4 US-PATENT-CLASS-343-100 US-PATENT-3,546,386	N71-24738*	c 05	NASA-CASE-ARC-10100-1 US-PATENT-APPL-SN-797058 US-PATENT-CLASS-128-24 US-PATENT-CLASS-128-25 US-PATENT-3,550,585
N71-24170*	c 16	NASA-CASE-XLA-04295 US-PATENT-APPL-SN-546149 US-PATENT-CLASS-356-107 US-PATENT-3,468,609	N71-24622*	c 07	NASA-CASE-NPO-10388 US-PATENT-APPL-SN-725432 US-PATENT-CLASS-179-15	N71-24739*	c 06	NASA-CASE-ARC-10098-1 US-PATENT-APPL-SN-702967 US-PATENT-CLASS-260-2.5 US-PATENT-3,549,564
N71-24183*	c 18	NASA-CASE-XGS-04799 US-PATENT-APPL-SN-452944 US-PATENT-CLASS-106-84 US-PATENT-3,416,939				N71-24740*	c 06	NASA-CASE-XMF-03074 US-PATENT-APPL-SN-593595 US-PATENT-CLASS-260-72.5 US-PATENT-3,516,971
N71-24184*	c 18	NASA-CASE-XNP-02139 US-PATENT-APPL-SN-430777 US-PATENT-CLASS-106-84				N71-24741*	c 07	NASA-CASE-NPO-10118

		US-PATENT-APPL-SN-704465			US-PATENT-APPL-SN-698630	N71-24910*	c 15	NASA-CASE-ERC-10045
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-333-83			US-PATENT-APPL-SN-763685
		US-PATENT-3,541,314			US-PATENT-3,541,479			US-PATENT-CLASS-73-40.7
N71-24742*	c 07	NASA-CASE-NPO-10140	N71-24842*	c 09	NASA-CASE-MSC-12209	N71-24911*	c 17	US-PATENT-3,548,636
		US-PATENT-APPL-SN-691737			US-PATENT-APPL-SN-881039			NASA-CASE-XLE-04946
		US-PATENT-CLASS-187-7.1			US-PATENT-CLASS-343-797			US-PATENT-APPL-SN-605093
		US-PATENT-3,541,250			US-PATENT-3,546,705			US-PATENT-CLASS-118-308
N71-24750*	c 31	NASA-CASE-XGS-01654	N71-24843*	c 09	NASA-CASE-XMF-06617	N71-24934*	c 18	US-PATENT-3,472,202
		US-PATENT-APPL-SN-434148			US-PATENT-APPL-SN-656993			NASA-CASE-NPO-10051
		US-PATENT-CLASS-102-50			US-PATENT-CLASS-324-71			US-PATENT-APPL-SN-711898
		US-PATENT-3,282,541			US-PATENT-3,541,439			US-PATENT-CLASS-73-38
N71-24798*	c 10	NASA-CASE-XLE-03061-1	N71-24844*	c 10	NASA-CASE-NPO-10169	N71-24948*	c 21	US-PATENT-3,548,633
		US-PATENT-APPL-SN-632152			US-PATENT-APPL-SN-701733			NASA-CASE-ERC-10090
		US-PATENT-CLASS-340-412			US-PATENT-CLASS-328-171			US-PATENT-APPL-SN-811542
		US-PATENT-3,546,694			US-PATENT-3,541,459			US-PATENT-CLASS-343-112
N71-24799*	c 10	NASA-CASE-XNP-06505	N71-24857*	c 23	NASA-CASE-XMS-06056-1	N71-24964*	c 11	US-PATENT-3,550,129
		US-PATENT-APPL-SN-562933			US-PATENT-APPL-SN-532006			NASA-CASE-NPO-10141
		US-PATENT-CLASS-307-254			US-PATENT-CLASS-350-189			US-PATENT-APPL-SN-673227
		US-PATENT-3,501,648			US-PATENT-3,472,577			US-PATENT-CLASS-62-55.5
N71-24800*	c 09	NASA-CASE-ERC-10075	N71-24858*	c 33	NASA-CASE-MFS-14253	N71-24984*	c 15	US-PATENT-3,443,390
		US-PATENT-APPL-SN-775870			US-PATENT-APPL-SN-709622			NASA-CASE-MFS-14971
		US-PATENT-CLASS-321-45			US-PATENT-CLASS-161-69			US-PATENT-APPL-SN-827579
		US-PATENT-3,539,905			US-PATENT-3,551,266			US-PATENT-CLASS-74-468
N71-24803*	c 09	NASA-CASE-NPO-10242	N71-24861*	c 10	NASA-CASE-XMF-05195	N71-24985*	c 11	US-PATENT-3,541,875
		US-PATENT-APPL-SN-749181			US-PATENT-APPL-SN-785595			NASA-CASE-KSC-10126
		US-PATENT-CLASS-307-88			US-PATENT-CLASS-318-599			US-PATENT-APPL-SN-845973
		US-PATENT-3,541,346			US-PATENT-3,523,228			US-PATENT-CLASS-73-15
N71-24804*	c 09	NASA-CASE-GSC-10299-1	N71-24862*	c 10	NASA-CASE-FRC-10010	N71-25139*	c 10	US-PATENT-3,545,252
		US-PATENT-APPL-SN-836367			US-PATENT-APPL-SN-771937			NASA-CASE-MFS-10068
		US-PATENT-CLASS-343-100			US-PATENT-CLASS-307-235			US-PATENT-APPL-SN-700541
		US-PATENT-3,540,050			US-PATENT-3,543,050			US-PATENT-CLASS-321-9
N71-24805*	c 09	NASA-CASE-XMF-06892	N71-24863*	c 10	NASA-CASE-XMF-02966	N71-25213*	c 28	US-PATENT-3,487,288
		US-PATENT-APPL-SN-757875			US-PATENT-APPL-SN-560968			NASA-CASE-GSC-10709-1
		US-PATENT-CLASS-318-318			US-PATENT-CLASS-324-70			US-PATENT-APPL-SN-791288
		US-PATENT-3,546,553			US-PATENT-3,406,336			US-PATENT-CLASS-60-202
N71-24806*	c 09	NASA-CASE-NPO-10198	N71-24864*	c 14	NASA-CASE-XLE-04503			US-PATENT-3,545,208
		US-PATENT-APPL-SN-723804			US-PATENT-APPL-SN-606463	N71-25351*	c 33	NASA-CASE-MFS-14023
		US-PATENT-CLASS-328-165			US-PATENT-CLASS-250-225			US-PATENT-APPL-SN-795217
		US-PATENT-3,550,023			US-PATENT-3,546,471			US-PATENT-CLASS-161-161
N71-24807*	c 09	NASA-CASE-MFS-14114-2	N71-24865*	c 15	NASA-CASE-XMF-05114-3			US-PATENT-CLASS-220-9
		US-PATENT-APPL-SN-854815			US-PATENT-APPL-SN-837378			US-PATENT-CLASS-52-249
		US-PATENT-CLASS-165-105			US-PATENT-CLASS-72-56			US-PATENT-CLASS-52-404
		US-PATENT-CLASS-165-107			US-PATENT-3,540,250			US-PATENT-CLASS-62-45
		US-PATENT-CLASS-165-138	N71-24868*	c 23	NASA-CASE-ERC-10001			US-PATENT-3,540,615
		US-PATENT-CLASS-310-4			US-PATENT-APPL-SN-712099	N71-25353*	c 33	NASA-CASE-MFS-20355
		US-PATENT-3,537,515			US-PATENT-CLASS-350-310			US-PATENT-APPL-SN-845974
N71-24808*	c 09	NASA-CASE-XNP-08880			US-PATENT-3,540,802			US-PATENT-CLASS-165-104
		US-PATENT-APPL-SN-605094	N71-24875*	c 15	NASA-CASE-XLA-06199			US-PATENT-CLASS-165-105
		US-PATENT-CLASS-333-98			US-PATENT-APPL-SN-702911			US-PATENT-CLASS-165-133
		US-PATENT-3,416,106			US-PATENT-CLASS-148-6.11			US-PATENT-CLASS-219-378
N71-24809*	c 14	NASA-CASE-XNP-08961	N71-24876*	c 33	US-PATENT-3,540,942			US-PATENT-CLASS-219-530
		US-PATENT-APPL-SN-661170			NASA-CASE-XNP-05524			US-PATENT-CLASS-244-1
		US-PATENT-CLASS-250-84			US-PATENT-APPL-SN-250567			US-PATENT-3,548,930
		US-PATENT-3,487,216			US-PATENT-CLASS-165-2	N71-25360*	c 32	NASA-CASE-XLA-08530
N71-24813*	c 31	NASA-CASE-XAC-06029-1			US-PATENT-3,270,802			US-PATENT-APPL-SN-808577
		US-PATENT-APPL-SN-588651	N71-24890*	c 08	NASA-CASE-XKS-06167			US-PATENT-CLASS-73-90
		US-PATENT-CLASS-343-100			US-PATENT-APPL-SN-649076			US-PATENT-3,546,931
		US-PATENT-3,540,048			US-PATENT-CLASS-235-155	N71-25434*	c 31	NASA-CASE-MSC-13047-1
N71-24828*	c 16	NASA-CASE-XAC-10770-1			US-PATENT-3,535,497			US-PATENT-APPL-SN-850586
		US-PATENT-APPL-SN-690997	N71-24891*	c 08	NASA-CASE-XNP-09759			US-PATENT-CLASS-244-1
		US-PATENT-CLASS-356-28			US-PATENT-APPL-SN-606462			US-PATENT-CLASS-244-113
		US-PATENT-3,547,540			US-PATENT-CLASS-235-92			US-PATENT-CLASS-244-138
N71-24830*	c 17	NASA-CASE-XNP-04148			US-PATENT-3,541,312			US-PATENT-3,547,376
		US-PATENT-APPL-SN-536210	N71-24892*	c 09	NASA-CASE-NPO-10716	N71-25490*	c 26	NASA-CASE-ERC-10088
		US-PATENT-CLASS-204-38			US-PATENT-APPL-SN-851394			US-PATENT-APPL-SN-760927
		US-PATENT-3,472,742			US-PATENT-CLASS-307-104			US-PATENT-CLASS-73-141
N71-24831*	c 16	NASA-CASE-NPO-10548			US-PATENT-CLASS-317-123			US-PATENT-3,537,305
		US-PATENT-APPL-SN-775072			US-PATENT-CLASS-317-148.5	N71-25555*	c 24	NASA-CASE-XNP-09469
		US-PATENT-CLASS-330-4			US-PATENT-3,549,955			US-PATENT-APPL-SN-645573
		US-PATENT-3,486,123	N71-24893*	c 09	NASA-CASE-ERC-10125			US-PATENT-CLASS-204-168
N71-24832*	c 16	NASA-CASE-ERC-10178			US-PATENT-APPL-SN-773029			US-PATENT-3,540,989
		US-PATENT-APPL-SN-800973			US-PATENT-CLASS-323-56	N71-25865*	c 10	NASA-CASE-KSC-10002
		US-PATENT-CLASS-331-94.5			US-PATENT-3,541,428			US-PATENT-APPL-SN-782956
		US-PATENT-3,550,034	N71-24895*	c 15	NASA-CASE-XLA-07473			US-PATENT-CLASS-178-69.5
N71-24833*	c 15	NASA-CASE-XMF-03793			US-PATENT-APPL-SN-839935			US-PATENT-3,567,861
		US-PATENT-APPL-SN-453225			US-PATENT-CLASS-318-265	N71-25866*	c 09	NASA-CASE-ARC-10003-1
		US-PATENT-CLASS-72-56			US-PATENT-3,546,552			US-PATENT-APPL-SN-717822
		US-PATENT-3,360,972	N71-24896*	c 15	NASA-CASE-ERC-10034			US-PATENT-CLASS-178-66
N71-24834*	c 15	NASA-CASE-XNP-05634			US-PATENT-APPL-SN-763706			US-PATENT-CLASS-179-100.2
		US-PATENT-APPL-SN-605096			US-PATENT-CLASS-250-43.5			US-PATENT-3,549,799
		US-PATENT-CLASS-73-95			US-PATENT-3,549,882	N71-25881*	c 18	NASA-CASE-XGS-05180
		US-PATENT-3,460,379	N71-24897*	c 15	NASA-CASE-XLA-03538			US-PATENT-APPL-SN-721607
N71-24835*	c 15	NASA-CASE-NPO-10123			US-PATENT-APPL-SN-749149			US-PATENT-CLASS-260-37
		US-PATENT-APPL-SN-731388			US-PATENT-CLASS-294-83			US-PATENT-3,567,677
		US-PATENT-CLASS-128-272			US-PATENT-3,508,779	N71-25882*	c 10	NASA-CASE-GSC-10022-1
		US-PATENT-CLASS-128-275			NASA-CASE-MFS-20395			US-PATENT-APPL-SN-785546
		US-PATENT-3,540,449			US-PATENT-APPL-SN-830715			US-PATENT-CLASS-331-113
N71-24836*	c 15	NASA-CASE-XLE-08917-2			US-PATENT-CLASS-285-314			US-PATENT-3,559,096
		US-PATENT-APPL-SN-852131			US-PATENT-CLASS-285-317	N71-25892*	c 14	NASA-CASE-XLA-04555-1
		US-PATENT-CLASS-72-60			US-PATENT-CLASS-285-38			US-PATENT-APPL-SN-594584
		US-PATENT-3,541,825			US-PATENT-CLASS-285-406			US-PATENT-CLASS-148-13
N71-24840*	c 07	NASA-CASE-NPO-10649			US-PATENT-3,545,792			US-PATENT-3,468,727
		US-PATENT-APPL-SN-795182	N71-24904*	c 09	NASA-CASE-MFS-20385	N71-25899*	c 10	NASA-CASE-LEW-10345-1
		US-PATENT-CLASS-325-113			US-PATENT-APPL-SN-853716			US-PATENT-APPL-SN-805298
		US-PATENT-3,541,450			US-PATENT-CLASS-310-10			US-PATENT-CLASS-137-81.5
N71-24841*	c 09	NASA-CASE-XNP-09771			US-PATENT-3,541,361			US-PATENT-CLASS-235-201

N71-25900*	c 10	US-PATENT-3,568,702 NASA-CASE-ERC-10032 US-PATENT-APPL-SN-757857 US-PATENT-CLASS-333-30 US-PATENT-CLASS-333-72 US-PATENT-3,568,103	N71-26136*	c 14	US-PATENT-3,564,401 NASA-CASE-XLA-01782 US-PATENT-APPL-SN-576792 US-PATENT-CLASS-73-15.6 US-PATENT-3,472,060	N71-26293*	c 05	US-PATENT-APPL-SN-719870 US-PATENT-CLASS-325-67 US-PATENT-3,553,586 NASA-CASE-XFR-07658-1 US-PATENT-APPL-SN-586324 US-PATENT-CLASS-128-2.06 US-PATENT-3,426,746
N71-25901*	c 14	NASA-CASE-XLA-02810 US-PATENT-APPL-SN-764252 US-PATENT-CLASS-250-43.5 US-PATENT-CLASS-250-83.3 US-PATENT-CLASS-340-233 US-PATENT-CLASS-340-285 US-PATENT-3,569,710	N71-26137*	c 14	US-PATENT-APPL-SN-811037 US-PATENT-CLASS-324-0.5 US-PATENT-CLASS-324-58.5 US-PATENT-3,562,631	N71-26294*	c 15	NASA-CASE-XNP-02862-1 US-PATENT-APPL-SN-556830 US-PATENT-CLASS-277-13 US-PATENT-3,468,548
N71-25903*	c 17	NASA-CASE-XLA-08966-1 US-PATENT-APPL-SN-570678 US-PATENT-CLASS-204-33 US-PATENT-3,468,765	N71-26142*	c 10	NASA-CASE-NPO-10302 US-PATENT-APPL-SN-848811 US-PATENT-CLASS-343-768 US-PATENT-3,553,704	N71-26312*	c 15	NASA-CASE-XNP-01263-2 US-PATENT-APPL-SN-718279 US-PATENT-CLASS-287-189.365 US-PATENT-3,481,638
N71-25914*	c 16	NASA-CASE-XLA-03410 US-PATENT-APPL-SN-512561 US-PATENT-CLASS-250-199 US-PATENT-3,469,087	N71-26145*	c 15	NASA-CASE-FRC-10005 US-PATENT-APPL-SN-756266 US-PATENT-CLASS-33-189 US-PATENT-3,562,919	N71-26326*	c 10	NASA-CASE-NPO-10143 US-PATENT-APPL-SN-692331 US-PATENT-CLASS-58-24 US-PATENT-3,472,019
N71-25917*	c 10	NASA-CASE-NPO-10595 US-PATENT-APPL-SN-771760 US-PATENT-CLASS-340-347 US-PATENT-3,569,956	N71-26148*	c 15	NASA-CASE-XMF-05114-2 US-PATENT-APPL-SN-837377 US-PATENT-CLASS-72-56 US-PATENT-3,555,867	N71-26331*	c 10	NASA-CASE-XNP-10854 US-PATENT-APPL-SN-668248 US-PATENT-CLASS-330-31 US-PATENT-3,482,179
N71-25929*	c 06	NASA-CASE-NPO-10596 US-PATENT-APPL-SN-756381 US-PATENT-CLASS-260-2.5 US-PATENT-3,557,027	N71-26153*	c 18	NASA-CASE-XLE-03940 US-PATENT-APPL-SN-539255 US-PATENT-CLASS-148-126 US-PATENT-3,472,709	N71-26333*	c 05	NASA-CASE-XMS-09652-1 US-PATENT-APPL-SN-618969 US-PATENT-CLASS-2-6 US-PATENT-3,473,165
N71-25950*	c 10	NASA-CASE-XGS-06226 US-PATENT-APPL-SN-676387 US-PATENT-CLASS-331-113 US-PATENT-3,466,570	N71-26154*	c 16	NASA-CASE-ERC-10020 US-PATENT-APPL-SN-709399 US-PATENT-CLASS-350-3.5 US-PATENT-3,540,790	N71-26334*	c 10	NASA-CASE-XLA-02619 US-PATENT-APPL-SN-796691 US-PATENT-CLASS-317-DIG.3 US-PATENT-CLASS-317-153 US-PATENT-CLASS-340-235 US-PATENT-3,575,641
N71-25975*	c 15	NASA-CASE-XMS-10660-1 US-PATENT-APPL-SN-797056 US-PATENT-CLASS-24-205.17 US-PATENT-3,469,289	N71-26155*	c 18	NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26339*	c 10	NASA-CASE-NPO-10185 US-PATENT-APPL-SN-723805 US-PATENT-CLASS-73-432 US-PATENT-3,472,080
N71-25999*	c 09	NASA-CASE-XGS-05290 US-PATENT-APPL-SN-754019 US-PATENT-CLASS-310-168 US-PATENT-CLASS-310-254 US-PATENT-CLASS-318-138 US-PATENT-CLASS-318-254 US-PATENT-3,569,804	N71-26161*	c 14	NASA-CASE-XLA-08254 US-PATENT-APPL-SN-867843 US-PATENT-CLASS-73-12 US-PATENT-CLASS-73-79 US-PATENT-3,576,127	N71-26346*	c 15	NASA-CASE-XLE-05641-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61 US-PATENT-3,461,700
N71-26000*	c 09	NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,466,459	N71-26162*	c 15	NASA-CASE-MS-15474-1 US-PATENT-APPL-SN-878731 US-PATENT-CLASS-24-263 US-PATENT-3,564,564	N71-26374*	c 10	NASA-CASE-GSC-11367 US-PATENT-APPL-SN-675238 US-PATENT-CLASS-331-18 US-PATENT-3,484,712
N71-26002*	c 09	NASA-CASE-XMS-04213-1 US-PATENT-APPL-SN-607484 US-PATENT-CLASS-128-2.1 US-PATENT-3,468,303	N71-26173*	c 28	NASA-CASE-LEW-10689-1 US-PATENT-APPL-SN-830978 US-PATENT-CLASS-60-202 US-PATENT-3,552,125	N71-26387*	c 12	NASA-CASE-XLA-05541 US-PATENT-APPL-SN-700986 US-PATENT-CLASS-73-301 US-PATENT-3,473,379
N71-26084*	c 03	NASA-CASE-LEW-11358 US-PATENT-APPL-SN-787906 US-PATENT-CLASS-136-6 US-PATENT-3,554,806	N71-26181*	c 07	NASA-CASE-MS-12223-1 US-PATENT-APPL-SN-839941 US-PATENT-CLASS-179-1 US-PATENT-3,555,192	N71-26414*	c 10	NASA-CASE-XMF-04958-1 US-PATENT-APPL-SN-448365 US-PATENT-CLASS-321-69 US-PATENT-3,434,037
N71-26085*	c 10	NASA-CASE-GSC-10735-1 US-PATENT-APPL-SN-863963 US-PATENT-CLASS-321-2 US-PATENT-3,559,031	N71-26182*	c 09	NASA-CASE-NPO-10625 US-PATENT-APPL-SN-856415 US-PATENT-CLASS-313-236 US-PATENT-CLASS-313-237 US-PATENT-CLASS-60-23 US-PATENT-3,562,575	N71-26415*	c 10	NASA-CASE-NPO-10003 US-PATENT-APPL-SN-638192 US-PATENT-CLASS-330-13 US-PATENT-3,461,393
N71-26092*	c 09	NASA-CASE-XNP-07477 US-PATENT-APPL-SN-605098 US-PATENT-CLASS-318-258 US-PATENT-3,501,684	N71-26185*	c 15	NASA-CASE-MFS-14711 US-PATENT-APPL-SN-774266 US-PATENT-CLASS-55-75 US-PATENT-3,557,534	N71-26418*	c 10	NASA-CASE-XGS-04224 US-PATENT-APPL-SN-568364 US-PATENT-CLASS-340-174 US-PATENT-3,483,535
N71-26100*	c 18	NASA-CASE-XLA-04251 US-PATENT-APPL-SN-657742 US-PATENT-CLASS-117-104 US-PATENT-3,553,002	N71-26189*	c 15	NASA-CASE-XLE-09527-2 US-PATENT-APPL-SN-840870 US-PATENT-CLASS-308-187 US-PATENT-3,561,828	N71-26434*	c 10	NASA-CASE-XNP-01466 US-PATENT-APPL-SN-487940 US-PATENT-CLASS-340-174 US-PATENT-3,461,437
N71-26101*	c 07	NASA-CASE-NPO-10231 US-PATENT-APPL-SN-701767 US-PATENT-CLASS-343-786 US-PATENT-3,534,376	N71-26199*	c 14	NASA-CASE-NPO-10691 US-PATENT-APPL-SN-816988 US-PATENT-CLASS-73-61 US-PATENT-3,566,676	N71-26474*	c 14	NASA-CASE-XMF-03844-1 US-PATENT-APPL-SN-601229 US-PATENT-CLASS-95-44 US-PATENT-3,472,140
N71-26102*	c 07	NASA-CASE-XNP-06611 US-PATENT-APPL-SN-593607 US-PATENT-CLASS-178-6.6 US-PATENT-3,474,192	N71-26206*	c 23	NASA-CASE-XGS-08269 US-PATENT-APPL-SN-787393 US-PATENT-CLASS-356-76 US-PATENT-3,554,647	N71-26475*	c 14	NASA-CASE-XNP-09701 US-PATENT-APPL-SN-584015 US-PATENT-CLASS-250-83.3 US-PATENT-3,461,290
N71-26103*	c 10	NASA-CASE-XNP-04623 US-PATENT-APPL-SN-510150 US-PATENT-CLASS-340-146.1 US-PATENT-3,474,413	N71-26243*	c 15	NASA-CASE-MS-10959 US-PATENT-APPL-SN-725719 US-PATENT-CLASS-188-1 US-PATENT-3,420,338	N71-26531*	c 10	NASA-CASE-GSC-10413 US-PATENT-APPL-SN-789043 US-PATENT-CLASS-317-20 US-PATENT-CLASS-317-33 US-PATENT-3,555,361
N71-26110*	c 02	NASA-CASE-LAR-10249-1 US-PATENT-APPL-SN-835060 US-PATENT-CLASS-244-42 US-PATENT-3,576,301	N71-26244*	c 14	NASA-CASE-XMS-06497 US-PATENT-APPL-SN-617778 US-PATENT-CLASS-324-115 US-PATENT-3,464,012	N71-26537*	c 31	NASA-CASE-GSC-10556-1 NASA-CASE-GSC-10557-1 US-PATENT-APPL-SN-808193 US-PATENT-CLASS-244-1 US-PATENT-CLASS-308-1 US-PATENT-CLASS-74-5.12 US-PATENT-3,554,466
N71-26133*	c 09	NASA-CASE-MFS-20075 US-PATENT-APPL-SN-835059 US-PATENT-CLASS-317-101 US-PATENT-CLASS-339-17 US-PATENT-3,575,638	N71-26266*	c 14	NASA-CASE-XNP-09830 US-PATENT-APPL-SN-632165 US-PATENT-CLASS-324-0.5 US-PATENT-3,474,328	N71-26544*	c 10	NASA-CASE-NPO-10344 US-PATENT-APPL-SN-732921 US-PATENT-CLASS-340-347 US-PATENT-3,566,396
N71-26134*	c 15	NASA-CASE-XKS-07953 US-PATENT-APPL-SN-725405 US-PATENT-CLASS-51-170 US-PATENT-3,553,904	N71-26285*	c 18	NASA-CASE-MS-12109 US-PATENT-APPL-SN-889376 US-PATENT-CLASS-112-402 US-PATENT-CLASS-2-275 US-PATENT-CLASS-2-81 US-PATENT-3,563,198	N71-26546*	c 12	NASA-CASE-FRC-10022 US-PATENT-APPL-SN-763729 US-PATENT-CLASS-73-194 US-PATENT-3,555,898
N71-26135*	c 14	NASA-CASE-XAC-03740 US-PATENT-APPL-SN-480211 US-PATENT-CLASS-324-43	N71-26291*	c 07	NASA-CASE-HQN-10541-1 US-PATENT-APPL-SN-494739 US-PATENT-CLASS-350-96 US-PATENT-3,556,634	N71-26577*	c 10	NASA-CASE-NPO-10214 US-PATENT-APPL-SN-704299 US-PATENT-CLASS-325-41
			N71-26292*	c 07	NASA-CASE-XKS-10543			

N71-26579*	c 07	US-PATENT-3,566,268	N71-26787*	c 09	US-PATENT-APPL-SN-804172	N71-27094*	c 28	NASA-CASE-GSC-10710-1
		NASA-CASE-XMS-06740-1			US-PATENT-CLASS-313-63			US-PATENT-APPL-SN-828909
		US-PATENT-APPL-SN-554277			US-PATENT-CLASS-315-111			US-PATENT-CLASS-73-117.4
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-60-202			US-PATENT-3,572,104
N71-26611*	c 15	US-PATENT-3,470,313	N71-26788*	c 14	US-PATENT-3,576,107	N71-27095*	c 28	NASA-CASE-MFS-20325
		NASA-CASE-MSC-11817-1			NASA-CASE-XKS-05932			US-PATENT-APPL-SN-840176
		US-PATENT-APPL-SN-7668			US-PATENT-APPL-SN-752729			US-PATENT-CLASS-244-1
		US-PATENT-CLASS-165-44			US-PATENT-CLASS-240-11.2			US-PATENT-3,572,610
N71-26626*	c 10	US-PATENT-CLASS-165-86	N71-27126*	c 10	US-PATENT-CLASS-240-11.4	N71-27126*	c 10	NASA-CASE-LEW-10233
		US-PATENT-CLASS-188-88			US-PATENT-CLASS-240-51.11			US-PATENT-APPL-SN-750787
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-313-22			US-PATENT-CLASS-307-253
		US-PATENT-CLASS-244-57			US-PATENT-3,564,234			US-PATENT-CLASS-307-300
N71-26627*	c 14	US-PATENT-3,563,307	N71-27001*	c 09	US-PATENT-3,564,234	N71-27135*	c 15	US-PATENT-3,566,158
		NASA-CASE-GSC-10891-1			NASA-CASE-MFS-20240			NASA-CASE-HQN-10541-2
		US-PATENT-APPL-SN-568620			US-PATENT-APPL-SN-825259			US-PATENT-APPL-SN-822088
		US-PATENT-CLASS-307-53			US-PATENT-CLASS-356-203			US-PATENT-CLASS-219-121
N71-26635*	c 15	US-PATENT-3,480,789	N71-27005*	c 14	US-PATENT-3,563,668	N71-27136*	c 10	US-PATENT-CLASS-318-571
		NASA-CASE-MFS-14017			NASA-CASE-XGS-11177			US-PATENT-CLASS-318-653
		US-PATENT-APPL-SN-762956			US-PATENT-APPL-SN-828921			US-PATENT-3,568,028
		US-PATENT-CLASS-248-183			US-PATENT-CLASS-317-33			NASA-CASE-XNP-06234
N71-26642*	c 28	US-PATENT-CLASS-308-9	N71-27006*	c 15	US-PATENT-3,571,656	N71-27146*	c 15	US-PATENT-APPL-SN-794968
		US-PATENT-3,559,937			NASA-CASE-MFS-20261			US-PATENT-CLASS-188-103
		NASA-CASE-ERC-10022			US-PATENT-APPL-SN-845990			US-PATENT-3,568,805
		US-PATENT-APPL-SN-874733			US-PATENT-CLASS-1			US-PATENT-CLASS-91-390
N71-26654*	c 23	US-PATENT-CLASS-74-424.8	N71-27016*	c 09	US-PATENT-CLASS-141-258	N71-27147*	c 15	US-PATENT-APPL-SN-783374
		US-PATENT-CLASS-74-89.15			US-PATENT-CLASS-222-137			US-PATENT-CLASS-91-461
		US-PATENT-3,576,135			US-PATENT-CLASS-222-49			US-PATENT-3,563,135
		US-PATENT-APPL-SN-758390			US-PATENT-3,568,885			NASA-CASE-LAR-10193-1
N71-26672*	c 14	US-PATENT-CLASS-60-202	N71-27036*	c 11	US-PATENT-APPL-SN-837825	N71-27169*	c 15	US-PATENT-APPL-SN-810575
		US-PATENT-3,552,124			US-PATENT-CLASS-73-147			US-PATENT-CLASS-310-51
		NASA-CASE-NPO-10467			US-PATENT-3,572,112			US-PATENT-3,566,993
		US-PATENT-APPL-SN-798277			NASA-CASE-GSC-11139			NASA-CASE-XMF-02221
N71-26673*	c 15	US-PATENT-CLASS-62-514	N71-27053*	c 09	US-PATENT-CLASS-307-234	N71-27170*	c 18	US-PATENT-APPL-SN-430192
		US-PATENT-3,564,866			US-PATENT-CLASS-307-246			US-PATENT-CLASS-252-301.2
		NASA-CASE-ERC-10033			US-PATENT-CLASS-307-273			US-PATENT-3,567,651
		US-PATENT-APPL-SN-801660			US-PATENT-CLASS-328-120			NASA-CASE-HQN-10541-4
N71-26677*	c 09	US-PATENT-CLASS-73-49.3	N71-27056*	c 07	US-PATENT-CLASS-330-30	N71-27183*	c 16	US-PATENT-APPL-SN-822090
		US-PATENT-3,559,460			US-PATENT-3,569,744			US-PATENT-CLASS-250-199
		NASA-CASE-XAC-09489-1			NASA-CASE-XNP-09770-3			US-PATENT-3,575,602
		US-PATENT-APPL-SN-694246			US-PATENT-APPL-SN-863967			NASA-CASE-XNP-08124
N71-26678*	c 19	US-PATENT-CLASS-356-154	N71-27057*	c 08	US-PATENT-CLASS-74-18.2	N71-27186*	c 14	US-PATENT-CLASS-75-63
		US-PATENT-3,565,530			US-PATENT-CLASS-374-286			US-PATENT-3,563,727
		NASA-CASE-XGS-04173			NASA-CASE-ERC-10113			NASA-CASE-NPO-10556
		US-PATENT-APPL-SN-658964			US-PATENT-APPL-SN-865811			US-PATENT-APPL-SN-796405
N71-26681*	c 32	US-PATENT-CLASS-350-285	N71-27067*	c 15	US-PATENT-CLASS-323-48	N71-27188*	c 15	US-PATENT-CLASS-73-71.6
		US-PATENT-3,560,081			US-PATENT-CLASS-323-60			US-PATENT-3,572,089
		NASA-CASE-ERC-10013			US-PATENT-3,571,699			NASA-CASE-HQN-10541-4
		US-PATENT-APPL-SN-802972			NASA-CASE-MSC-12205-1			US-PATENT-APPL-SN-822090
N71-26688*	c 03	US-PATENT-CLASS-29-25.18	N71-27068*	c 15	US-PATENT-APPL-SN-882577	N71-27210*	c 08	US-PATENT-CLASS-250-199
		US-PATENT-3,562,881			US-PATENT-CLASS-325-16			US-PATENT-3,575,602
		NASA-CASE-LAR-10098			US-PATENT-CLASS-325-23			NASA-CASE-XNP-08124
		US-PATENT-APPL-SN-677475			US-PATENT-CLASS-325-369			US-PATENT-APPL-SN-697075
N71-26701*	c 09	US-PATENT-CLASS-73-71.4	N71-27078*	c 15	US-PATENT-CLASS-325-369	N71-27186*	c 14	US-PATENT-CLASS-75-63
		US-PATENT-3,564,906			US-PATENT-CLASS-343-100			US-PATENT-3,563,727
		NASA-CASE-NPO-10331			US-PATENT-CLASS-343-117			NASA-CASE-NPO-10556
		US-PATENT-APPL-SN-757625			US-PATENT-CLASS-343-176			US-PATENT-APPL-SN-796405
N71-26721*	c 15	US-PATENT-CLASS-118-49.5	N71-27079*	c 14	US-PATENT-3,568,197	N71-27188*	c 14	US-PATENT-CLASS-73-71.6
		US-PATENT-CLASS-204-298			NASA-CASE-XLA-07828			US-PATENT-3,572,089
		US-PATENT-CLASS-204-298			US-PATENT-APPL-SN-770209			NASA-CASE-XMF-02221
		US-PATENT-3,556,048			US-PATENT-CLASS-318-20.105			US-PATENT-APPL-SN-719029
N71-26722*	c 23	NASA-CASE-LAR-10121-1	N71-27084*	c 15	US-PATENT-CLASS-325-151.11	N71-27186*	c 14	US-PATENT-CLASS-174-110.3
		US-PATENT-APPL-SN-766244			US-PATENT-CLASS-340-347DA			US-PATENT-CLASS-324-65
		US-PATENT-CLASS-18-6			US-PATENT-3,573,797			US-PATENT-CLASS-340-227
		US-PATENT-3,562,857			NASA-CASE-MSC-13276-1			US-PATENT-CLASS-60-35.6
N71-26726*	c 03	US-PATENT-APPL-SN-756260	N71-27088*	c 02	US-PATENT-APPL-SN-880272	N71-27191*	c 07	US-PATENT-3,569,828
		US-PATENT-CLASS-331-94.5			US-PATENT-CLASS-219-505			NASA-CASE-MFS-20068
		US-PATENT-3,555,455			US-PATENT-3,575,585			US-PATENT-APPL-SN-797795
		NASA-CASE-XNP-03413			NASA-CASE-XKS-07814			US-PATENT-CLASS-174-28
N71-26733*	c 17	US-PATENT-APPL-SN-640456	N71-27090*	c 14	US-PATENT-APPL-SN-672384	N71-27210*	c 08	US-PATENT-APPL-SN-762957
		US-PATENT-CLASS-156-212			US-PATENT-CLASS-182-10			US-PATENT-CLASS-179-100.2
		US-PATENT-3,565,719			US-PATENT-CLASS-188-65.5			US-PATENT-CLASS-29-603
		NASA-CASE-XNP-09451			US-PATENT-CLASS-343-884			US-PATENT-CLASS-343-96
N71-26737*	c 14	US-PATENT-APPL-SN-713162	N71-27091*	c 15	US-PATENT-3,568,795	N71-27214*	c 15	US-PATENT-3,569,875
		US-PATENT-CLASS-23-253			NASA-CASE-NPO-10796			NASA-CASE-GSC-10097-1
		US-PATENT-3,560,161			US-PATENT-APPL-SN-815760			US-PATENT-APPL-SN-762957
		NASA-CASE-XMF-07770-2			US-PATENT-CLASS-220-46			US-PATENT-CLASS-179-100.2
N71-26742*	c 18	US-PATENT-APPL-SN-711903	N71-27094*	c 14	US-PATENT-3,568,874	N71-27215*	c 14	US-PATENT-CLASS-356-106
		US-PATENT-CLASS-106-296			US-PATENT-3,568,874			US-PATENT-CLASS-356-106
		US-PATENT-3,576,656			NASA-CASE-NPO-10755			US-PATENT-CLASS-356-106
		US-PATENT-APPL-SN-711903			US-PATENT-APPL-SN-816733			NASA-CASE-NPO-10607
N71-26744*	c 14	US-PATENT-CLASS-106-296	N71-27095*	c 15	US-PATENT-CLASS-417-50	N71-27232*	c 09	US-PATENT-APPL-SN-799353
		US-PATENT-3,576,656			US-PATENT-3,567,339			US-PATENT-CLASS-250-83
		NASA-CASE-XNP-04262-2			NASA-CASE-XLA-08967			US-PATENT-CLASS-317-230
		US-PATENT-APPL-SN-684894			US-PATENT-APPL-SN-837830			US-PATENT-CLASS-317-231
N71-26747*	c 14	US-PATENT-CLASS-75-66	N71-27096*	c 14	US-PATENT-CLASS-244-90	N71-27233*	c 09	US-PATENT-CLASS-317-238
		US-PATENT-3,565,607			US-PATENT-3,570,789			US-PATENT-3,568,010
		NASA-CASE-ERC-11020			NASA-CASE-ERC-10044-1			US-PATENT-3,568,748
		US-PATENT-APPL-SN-686248			US-PATENT-APPL-SN-811892			US-PATENT-CLASS-235-92
N71-26754*	c 28	US-PATENT-CLASS-325-363	N71-27097*	c 15	US-PATENT-CLASS-250-43.5R	N71-27234*	c 09	US-PATENT-CLASS-356-106
		US-PATENT-3,564,420			US-PATENT-CLASS-250-83.6R			US-PATENT-CLASS-356-106
		NASA-CASE-XLA-04126			US-PATENT-CLASS-324-33			US-PATENT-CLASS-356-106
		US-PATENT-APPL-SN-467820			US-PATENT-3,575,597			US-PATENT-CLASS-356-106
N71-26757*	c 14	US-PATENT-CLASS-102-101	N71-27098*	c 15	US-PATENT-CLASS-324-33	N71-27235*	c 09	US-PATENT-CLASS-356-106
		US-PATENT-CLASS-264-3			US-PATENT-3,575,597			US-PATENT-CLASS-356-106
		US-PATENT-CLASS-86-1			NASA-CASE-MFS-13929			US-PATENT-CLASS-356-106
		US-PATENT-CLASS-86-20.2			US-PATENT-APPL-SN-779847			US-PATENT-CLASS-356-106
N71-26772*	c 28	US-PATENT-CLASS-86-20.2	N71-27099*	c 14	US-PATENT-CLASS-152-225	N71-27236*	c 09	US-PATENT-CLASS-356-106
		US-PATENT-3,570,364			US-PATENT-CLASS-152-250			US-PATENT-CLASS-356-106
		NASA-CASE-LEW-10210-1			US-PATENT-3,568,748			US-PATENT-CLASS-356-106
		US-PATENT-CLASS-86-1			US-PATENT-3,568,748			US-PATENT-CLASS-356-106

N71-27233*	c 07	NASA-CASE-GSC-10220-1 US-PATENT-APPL-SN-759256 US-PATENT-CLASS-343-777 US-PATENT-CLASS-343-786 US-PATENT-CLASS-343-799 US-PATENT-CLASS-343-840 US-PATENT-CLASS-343-854 US-PATENT-3,569,976	N71-27407*	c 14	NASA-CASE-GSC-10376-1 US-PATENT-APPL-SN-806226 US-PATENT-CLASS-307-126 US-PATENT-CLASS-323-20 US-PATENT-3,566,143	N71-28729*	c 18	NASA-CASE-LEW-10219-1 US-PATENT-APPL-SN-785780 US-PATENT-CLASS-148-126 US-PATENT-3,579,390
N71-27234*	c 05	NASA-CASE-XFR-07172 US-PATENT-APPL-SN-720041 US-PATENT-CLASS-128-2.05 US-PATENT-3,563,232	N71-27432*	c 15	NASA-CASE-NPO-10808 US-PATENT-APPL-SN-808192 US-PATENT-CLASS-60-243 US-PATENT-3,568,447	N71-28739*	c 10	NASA-CASE-XNP-01068 US-PATENT-APPL-SN-375680 US-PATENT-CLASS-307-88.5 US-PATENT-3,271,594
N71-27254*	c 06	NASA-CASE-NPO-10768 US-PATENT-APPL-SN-770398 US-PATENT-CLASS-260-615 US-PATENT-3,574,770	N71-27585*	c 28	NASA-CASE-MFS-20130 US-PATENT-APPL-SN-809822 US-PATENT-CLASS-244-4 US-PATENT-3,570,785	N71-28740*	c 15	NASA-CASE-XLA-09346 US-PATENT-APPL-SN-820964 US-PATENT-CLASS-356-150 US-PATENT-CLASS-356-152 US-PATENT-CLASS-356-153 US-PATENT-CLASS-73-147
N71-27255*	c 08	NASA-CASE-NPO-12107 US-PATENT-APPL-SN-555189 US-PATENT-CLASS-179-100.2 US-PATENT-CLASS-340-146.1 US-PATENT-CLASS-340-172.5 US-PATENT-3,571,801	N71-27754*	c 15	NASA-CASE-ARC-10131-1 US-PATENT-APPL-SN-808576 US-PATENT-CLASS-60-51 US-PATENT-CLASS-91-361 US-PATENT-CLASS-91-390 US-PATENT-CLASS-91-448 US-PATENT-3,568,572	N71-28741*	c 12	NASA-CASE-XLE-09341 US-PATENT-APPL-SN-780065 US-PATENT-CLASS-137-81.5 US-PATENT-3,583,419
N71-27271*	c 10	NASA-CASE-XLA-03893 US-PATENT-APPL-SN-779024 US-PATENT-CLASS-331-109 US-PATENT-CLASS-331-117 US-PATENT-CLASS-331-177 US-PATENT-CLASS-332-30 US-PATENT-3,569,866	N71-27862*	c 33	NASA-CASE-MFS-14114 US-PATENT-APPL-SN-706013 US-PATENT-CLASS-310-4 US-PATENT-3,535,562	N71-28747*	c 17	NASA-CASE-XNP-08881 US-PATENT-APPL-SN-732922 US-PATENT-CLASS-161-89 US-PATENT-3,579,412
N71-27272*	c 10	NASA-CASE-XLA-08799 US-PATENT-APPL-SN-668242 US-PATENT-CLASS-340-150 US-PATENT-CLASS-340-164 US-PATENT-CLASS-340-166 US-PATENT-CLASS-340-213 US-PATENT-CLASS-340-403 US-PATENT-3,571,800	N71-28421*	c 09	NASA-CASE-NPO-10412 US-PATENT-APPL-SN-768470 US-PATENT-CLASS-310-4 US-PATENT-3,578,992	N71-28759*	c 22	NASA-CASE-LEW-10250-1 US-PATENT-APPL-SN-732455 US-PATENT-CLASS-176-45 US-PATENT-3,574,057
N71-27323*	c 14	NASA-CASE-NPO-10810 US-PATENT-APPL-SN-805405 US-PATENT-CLASS-250-83.3 US-PATENT-CLASS-73-355 US-PATENT-3,566,122	N71-28429*	c 07	NASA-CASE-MSC-13201-1 US-PATENT-APPL-SN-789903 US-PATENT-CLASS-332-29 US-PATENT-CLASS-332-30 US-PATENT-3,579,147	N71-28779*	c 11	NASA-CASE-XNP-00250 US-PATENT-APPL-SN-212497 US-PATENT-CLASS-181-5 US-PATENT-3,260,326
N71-27324*	c 21	NASA-CASE-GSC-10555-1 US-PATENT-APPL-SN-785620 US-PATENT-CLASS-244-1 US-PATENT-3,567,155	N71-28430*	c 07	NASA-CASE-GSC-10668-1 US-PATENT-APPL-SN-743525 US-PATENT-CLASS-307-296 US-PATENT-CLASS-325-185 US-PATENT-CLASS-330-124 US-PATENT-CLASS-330-200 US-PATENT-CLASS-330-40 US-PATENT-3,577,092	N71-28783*	c 10	NASA-CASE-XMS-02182 US-PATENT-APPL-SN-516153 US-PATENT-CLASS-317-100 US-PATENT-3,317,797
N71-27325*	c 14	NASA-CASE-GSC-10441-1 US-PATENT-APPL-SN-782544 US-PATENT-CLASS-324-43 US-PATENT-3,571,700	N71-28465*	c 15	NASA-CASE-ERC-10097 US-PATENT-APPL-SN-797059 US-PATENT-CLASS-308-170 US-PATENT-3,583,777	N71-28807*	c 06	NASA-CASE-XMF-08674 US-PATENT-APPL-SN-617775 US-PATENT-CLASS-260-47 US-PATENT-3,370,039
N71-27332*	c 12	NASA-CASE-NPO-10416 US-PATENT-APPL-SN-754020 US-PATENT-CLASS-137-81.5 US-PATENT-3,570,513	N71-28467*	c 15	NASA-CASE-NPO-10646 US-PATENT-APPL-SN-813488 US-PATENT-CLASS-64-18 US-PATENT-3,574,277	N71-28808*	c 06	NASA-CASE-XNP-04023 US-PATENT-APPL-SN-470902 US-PATENT-CLASS-260-429 US-PATENT-3,396,184
N71-27333*	c 12	NASA-CASE-NPO-10416 US-PATENT-APPL-SN-754020 US-PATENT-CLASS-137-81.5 US-PATENT-3,570,513	N71-28468*	c 09	NASA-CASE-ARC-10137-1 US-PATENT-APPL-SN-799013 US-PATENT-CLASS-307-265 US-PATENT-CLASS-307-273 US-PATENT-CLASS-307-288 US-PATENT-CLASS-328-207 US-PATENT-3,584,311	N71-28809*	c 07	NASA-CASE-XGS-02290 US-PATENT-APPL-SN-544895 US-PATENT-CLASS-343-771 US-PATENT-3,417,400
N71-27334*	c 14	NASA-CASE-ERC-10087 US-PATENT-APPL-SN-738315 US-PATENT-CLASS-29-588 US-PATENT-3,566,459	N71-28554*	c 16	NASA-CASE-XGS-10518 US-PATENT-APPL-SN-764470 US-PATENT-CLASS-335-216 US-PATENT-3,541,486	N71-28810*	c 09	NASA-CASE-XNP-03916 US-PATENT-APPL-SN-535304 US-PATENT-CLASS-331-113 US-PATENT-3,325,749
N71-27338*	c 10	NASA-CASE-KSC-10020 US-PATENT-APPL-SN-817482 US-PATENT-CLASS-324-103 US-PATENT-CLASS-324-107 US-PATENT-CLASS-324-133 US-PATENT-CLASS-340-248 US-PATENT-3,571,707	N71-28579*	c 03	NASA-CASE-LEW-11359 US-PATENT-APPL-SN-787911 US-PATENT-CLASS-136-83 US-PATENT-3,573,986	N71-28849*	c 28	NASA-CASE-XMS-04826 US-PATENT-APPL-SN-521755 US-PATENT-CLASS-60-258 US-PATENT-3,318,096
N71-27341*	c 07	NASA-CASE-NPO-10343 US-PATENT-APPL-SN-750786 US-PATENT-CLASS-178-7.1 US-PATENT-CLASS-178-7.3 US-PATENT-3,566,027	N71-28582*	c 15	NASA-CASE-LEW-10278-1 US-PATENT-APPL-SN-760928 US-PATENT-CLASS-117-224 US-PATENT-3,573,977	N71-28850*	c 28	NASA-CASE-XNP-01954 US-PATENT-APPL-SN-372730 US-PATENT-CLASS-313-230 US-PATENT-3,328,624
N71-27363*	c 06	NASA-CASE-HQN-10364 US-PATENT-APPL-SN-713616 US-PATENT-CLASS-260-2 US-PATENT-3,563,918	N71-28618*	c 09	NASA-CASE-ERC-10098 US-PATENT-APPL-SN-779169 US-PATENT-CLASS-178-5.2R US-PATENT-CLASS-178-54CF US-PATENT-CLASS-178-54PE US-PATENT-3,582,960	N71-28851*	c 31	NASA-CASE-XMS-06162 US-PATENT-APPL-SN-610724 US-PATENT-CLASS-244-138 US-PATENT-3,330,510
N71-27364*	c 09	NASA-CASE-ERC-10065 US-PATENT-APPL-SN-777818 US-PATENT-CLASS-321-61 US-PATENT-CLASS-321-64 US-PATENT-CLASS-322-32 US-PATENT-3,571,693	N71-28619*	c 05	NASA-CASE-ARC-10153 US-PATENT-APPL-SN-783377 US-PATENT-CLASS-104-1 US-PATENT-CLASS-104-139 US-PATENT-CLASS-119-96 US-PATENT-CLASS-238-1 US-PATENT-CLASS-248-361 US-PATENT-CLASS-272-70 US-PATENT-CLASS-35-29 US-PATENT-3,583,322	N71-28852*	c 33	NASA-CASE-XNP-01310 US-PATENT-APPL-SN-379771 US-PATENT-CLASS-60-266 US-PATENT-3,279,193
N71-27365*	c 10	NASA-CASE-NPO-10251 US-PATENT-APPL-SN-774265 US-PATENT-CLASS-35-19 US-PATENT-3,570,143	N71-28620*	c 06	NASA-CASE-NPO-10701 US-PATENT-APPL-SN-763355 US-PATENT-CLASS-260-47 US-PATENT-3,576,786	N71-28859*	c 10	NASA-CASE-XNP-01107 US-PATENT-APPL-SN-384010 US-PATENT-CLASS-330-51 US-PATENT-3,389,346
N71-27366*	c 10	NASA-CASE-GSC-10114-1 US-PATENT-APPL-SN-796370 US-PATENT-CLASS-317-33 US-PATENT-CLASS-321-12 US-PATENT-3,571,662	N71-28629*	c 11	NASA-CASE-KSC-10198 US-PATENT-APPL-SN-845971 US-PATENT-CLASS-73-15 US-PATENT-CLASS-73-432 US-PATENT-3,578,756	N71-28860*	c 10	NASA-CASE-MSC-13492-1 US-PATENT-APPL-SN-53156 US-PATENT-CLASS-307-215 US-PATENT-CLASS-307-265 US-PATENT-CLASS-307-273 US-PATENT-CLASS-328-207 US-PATENT-CLASS-328-92 US-PATENT-3,577,014
N71-27372*	c 15	NASA-CASE-NPO-10070 US-PATENT-APPL-SN-780064 US-PATENT-CLASS-23-259 US-PATENT-3,565,584	N71-28691*	c 09	NASA-CASE-MFS-13687	N71-28863*	c 14	NASA-CASE-ERC-10014 US-PATENT-APPL-SN-815367 US-PATENT-CLASS-250-41.9 US-PATENT-CLASS-250-49.5 US-PATENT-3,567,927
N71-27397*	c 18	NASA-CASE-XNP-02500 US-PATENT-APPL-SN-508169 US-PATENT-CLASS-324-58.5				N71-28886*	c 09	NASA-CASE-MFS-14610 US-PATENT-APPL-SN-885571 US-PATENT-CLASS-318-317 US-PATENT-CLASS-318-331 US-PATENT-CLASS-318-345 US-PATENT-CLASS-318-504 US-PATENT-3,573,583
						N71-28892*	c 33	NASA-CASE-XMF-05046 US-PATENT-APPL-SN-559350

		US-PATENT-CLASS-62-45	N71-28994*	c 14	NASA-CASE-XER-11203	N71-29129*	c 03	NASA-CASE-XGS-01674
		US-PATENT-3,365,897			US-PATENT-APPL-SN-815366			US-PATENT-APPL-SN-248985
N71-28900*	c 07	NASA-CASE-XNP-02389			US-PATENT-CLASS-250-218			US-PATENT-CLASS-320-13
		US-PATENT-APPL-SN-516162			US-PATENT-CLASS-356-103			US-PATENT-3,118,100
		US-PATENT-CLASS-343-100			US-PATENT-3,578,867	N71-29131*	c 16	NASA-CASE-ERC-10151
		US-PATENT-3,331,071	N71-29008*	c 09	NASA-CASE-MSC-11277			US-PATENT-APPL-SN-853856
N71-28903*	c 33	NASA-CASE-XLA-01745			US-PATENT-APPL-SN-771759			US-PATENT-CLASS-350-3.5
		US-PATENT-APPL-SN-538907			US-PATENT-CLASS-317-155.5			US-PATENT-3,578,838
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-317-33	N71-29132*	c 15	NASA-CASE-NPO-10431
		US-PATENT-3,409,247			US-PATENT-CLASS-317-54			US-PATENT-APPL-SN-865329
N71-28915*	c 28	NASA-CASE-LEW-10286-1			US-PATENT-CLASS-317-60			US-PATENT-CLASS-73-49.8
		US-PATENT-APPL-SN-839994			US-PATENT-3,579,041			US-PATENT-3,583,239
		US-PATENT-CLASS-431-352	N71-29018*	c 15	NASA-CASE-XLA-08916	N71-29133*	c 15	NASA-CASE-MFS-20453
		US-PATENT-CLASS-60-39.36			US-PATENT-APPL-SN-777765			US-PATENT-APPL-SN-885594
		US-PATENT-CLASS-60-39.65			US-PATENT-CLASS-29-421			US-PATENT-CLASS-29-278R
		US-PATENT-3,581,492			US-PATENT-3,583,058			US-PATENT-CLASS-294-15
N71-28925*	c 08	NASA-CASE-XNP-01012	N71-29032*	c 15	NASA-CASE-XMF-05999			US-PATENT-CLASS-339-17R
		US-PATENT-APPL-SN-369338			US-PATENT-APPL-SN-752946			US-PATENT-CLASS-81-3R
		US-PATENT-CLASS-340-174			US-PATENT-CLASS-117-212			US-PATENT-3,583,744
		US-PATENT-3,394,359			US-PATENT-3,576,669	N71-29134*	c 14	NASA-CASE-MFS-11204
N71-28926*	c 09	NASA-CASE-XMS-03542	N71-29033*	c 08	NASA-CASE-GSC-10554-1			US-PATENT-APPL-SN-845991
		US-PATENT-APPL-SN-482952			US-PATENT-APPL-SN-828984			US-PATENT-CLASS-73-1R
		US-PATENT-CLASS-307-263			US-PATENT-CLASS-235-150.1			US-PATENT-CLASS-73-304C
		US-PATENT-3,364,366			US-PATENT-CLASS-235-150.2			US-PATENT-3,578,755
N71-28928*	c 28	NASA-CASE-XNP-00816			US-PATENT-CLASS-235-150.27	N71-29135*	c 10	NASA-CASE-GSC-10564
		US-PATENT-APPL-SN-235588			US-PATENT-CLASS-235-151.1			US-PATENT-APPL-SN-292596
		US-PATENT-CLASS-253-77			US-PATENT-3,578,957			US-PATENT-CLASS-340-174
		US-PATENT-3,202,398	N71-29034*	c 08	NASA-CASE-NPO-11088			US-PATENT-3,348,218
N71-28929*	c 27	NASA-CASE-XNP-00650			US-PATENT-APPL-SN-887701	N71-29136*	c 15	NASA-CASE-XLA-00013
		US-PATENT-APPL-SN-271823			US-PATENT-CLASS-307-207			US-PATENT-APPL-SN-579121
		US-PATENT-CLASS-60-39.48			US-PATENT-CLASS-307-222			US-PATENT-CLASS-308-177
		US-PATENT-3,170,295			US-PATENT-CLASS-328-167			US-PATENT-2,903,307
N71-28933*	c 14	NASA-CASE-XLA-08913			US-PATENT-CLASS-328-44	N71-29137*	c 17	NASA-CASE-XNP-04339
		US-PATENT-APPL-SN-865109			US-PATENT-3,579,122			US-PATENT-APPL-SN-451596
		US-PATENT-CLASS-204-263	N71-29035*	c 09	NASA-CASE-LEW-10155-1			US-PATENT-CLASS-264-111
		US-PATENT-3,574,084			US-PATENT-APPL-SN-889387			US-PATENT-3,413,393
N71-28935*	c 14	NASA-CASE-LAR-10686			US-PATENT-CLASS-337-114	N71-29138*	c 08	NASA-CASE-ERC-10041
		US-PATENT-APPL-SN-280362			US-PATENT-CLASS-337-121			US-PATENT-APPL-SN-889478
		US-PATENT-CLASS-226-58			US-PATENT-3,579,168			US-PATENT-CLASS-307-234
		US-PATENT-3,298,582	N71-29040*	c 18	NASA-CASE-XLE-10910			US-PATENT-CLASS-307-265
N71-28936*	c 15	NASA-CASE-XMS-10993			US-PATENT-APPL-SN-751061			US-PATENT-CLASS-324-106
		US-PATENT-APPL-SN-660573			US-PATENT-CLASS-148-6			US-PATENT-CLASS-328-58
		US-PATENT-CLASS-244-1			US-PATENT-3,573,996			US-PATENT-CLASS-332-10
		US-PATENT-3,389,877	N71-29041*	c 14	NASA-CASE-XLA-10402			US-PATENT-CLASS-332-9R
N71-28937*	c 15	NASA-CASE-XNP-01855			US-PATENT-APPL-SN-762935			US-PATENT-3,579,146
		US-PATENT-APPL-SN-408435			US-PATENT-CLASS-356-76	N71-29139*	c 09	NASA-CASE-XLA-07788
		US-PATENT-CLASS-285-45			US-PATENT-3,574,462			US-PATENT-APPL-SN-874732
		US-PATENT-3,219,365	N71-29044*	c 03	NASA-CASE-XMS-02063			US-PATENT-CLASS-307-215
N71-28951*	c 15	NASA-CASE-XNP-02278			US-PATENT-APPL-SN-422096			US-PATENT-CLASS-307-247
		US-PATENT-APPL-SN-11853			US-PATENT-CLASS-136-86			US-PATENT-CLASS-307-265
		US-PATENT-CLASS-60-35.55			US-PATENT-3,382,105			US-PATENT-CLASS-307-273
		US-PATENT-3,132,479	N71-29046*	c 33	NASA-CASE-XHQ-03673			US-PATENT-CLASS-307-294
N71-28952*	c 15	NASA-CASE-XAC-00001			US-PATENT-APPL-SN-559055			US-PATENT-CLASS-328-207
		US-PATENT-APPL-SN-612568			US-PATENT-CLASS-165-86			US-PATENT-3,578,988
		US-PATENT-CLASS-318-31			US-PATENT-3,347,309	N71-29151*	c 33	NASA-CASE-XLE-00035
		US-PATENT-2,837,706	N71-29049*	c 23	NASA-CASE-XNP-06503			US-PATENT-APPL-SN-575291
N71-28958*	c 14	NASA-CASE-XNP-02792			US-PATENT-APPL-SN-370989			US-PATENT-CLASS-204-37
		US-PATENT-APPL-SN-262596			US-PATENT-CLASS-335-216			US-PATENT-2,926,123
		US-PATENT-CLASS-219-413			US-PATENT-3,273,094	N71-29152*	c 33	NASA-CASE-XLE-00027
		US-PATENT-3,197,616	N71-29050*	c 31	NASA-CASE-HQN-00936			US-PATENT-APPL-SN-529594
N71-28959*	c 15	NASA-CASE-XNP-01848			US-PATENT-APPL-SN-862921			US-PATENT-CLASS-253-39.1
		US-PATENT-APPL-SN-359532			US-PATENT-CLASS-244-1			US-PATENT-2,956,772
		US-PATENT-CLASS-64-27			US-PATENT-3,396,920	N71-29153*	c 28	NASA-CASE-MFS-20831
		US-PATENT-3,236,066			NASA-CASE-XMF-04208			US-PATENT-APPL-SN-238421
N71-28960*	c 10	NASA-CASE-XNP-00745	N71-29051*	c 33	US-PATENT-APPL-SN-428887			US-PATENT-CLASS-60-35.54
		US-PATENT-APPL-SN-314570			US-PATENT-CLASS-73-190			US-PATENT-3,212,259
		US-PATENT-CLASS-328-67			US-PATENT-3,372,588	N71-29154*	c 28	NASA-CASE-XLE-00155
		US-PATENT-3,252,100	N71-29052*	c 33	NASA-CASE-MSC-12389			US-PATENT-APPL-SN-348600
N71-28965* #	c 07	NASA-CASE-GSC-10949-1			US-PATENT-APPL-SN-229286			US-PATENT-CLASS-253-77
		US-PATENT-APPL-SN-94369			US-PATENT-CLASS-165-47			US-PATENT-2,997,274
N71-28979*	c 07	NASA-CASE-HQN-00937			US-PATENT-3,212,564	N71-29155*	c 27	NASA-CASE-MSC-12390
		US-PATENT-APPL-SN-343760			NASA-CASE-HQN-00938			US-PATENT-APPL-SN-231520
		US-PATENT-CLASS-343-823			US-PATENT-APPL-SN-300957			US-PATENT-CLASS-222-61
		US-PATENT-3,299,431			US-PATENT-CLASS-60-267			US-PATENT-3,286,882
N71-28980*	c 07	NASA-CASE-XLA-10772			US-PATENT-3,298,175	N71-29156*	c 26	NASA-CASE-XNP-01961
		US-PATENT-APPL-SN-887700			NASA-CASE-ERC-10011			US-PATENT-APPL-SN-442835
		US-PATENT-CLASS-343-708			US-PATENT-APPL-SN-802818			US-PATENT-CLASS-148-174
		US-PATENT-CLASS-343-784			US-PATENT-CLASS-333-81			US-PATENT-3,397,094
		US-PATENT-CLASS-343-872			US-PATENT-CLASS-350-1	N71-29184*	c 25	NASA-CASE-XLA-00327
		US-PATENT-3,579,242			US-PATENT-CLASS-350-286			US-PATENT-APPL-SN-199199
N71-28991*	c 14	NASA-CASE-XLA-06713			US-PATENT-3,574,438			US-PATENT-CLASS-315-111
		US-PATENT-APPL-SN-863913	N71-29123*	c 23	NASA-CASE-XNP-08907			US-PATENT-3,238,413
		US-PATENT-CLASS-324-5			US-PATENT-APPL-SN-824042			NASA-CASE-MFS-20096
		US-PATENT-CLASS-324-73			US-PATENT-CLASS-350-102	N71-30026*	c 14	US-PATENT-APPL-SN-435433
		US-PATENT-CLASS-340-347AD			US-PATENT-CLASS-350-288			US-PATENT-CLASS-73-432
		US-PATENT-3,579,103			US-PATENT-CLASS-350-310			US-PATENT-3,396,584
N71-28992*	c 14	NASA-CASE-ERC-10150			US-PATENT-3,574,448	N71-30027*	c 23	NASA-CASE-GSC-10700
		US-PATENT-APPL-SN-822519			NASA-CASE-NPO-11087			US-PATENT-APPL-SN-311387
		US-PATENT-CLASS-250-41.95	N71-29125*	c 23	US-PATENT-APPL-SN-840359			US-PATENT-CLASS-350-2
		US-PATENT-CLASS-73-40.7			US-PATENT-CLASS-331-94.5			US-PATENT-3,394,975
		US-PATENT-3,578,758			US-PATENT-CLASS-356-153	N71-30028*	c 15	NASA-CASE-MFS-20830
N71-28993*	c 14	NASA-CASE-MFS-20044			US-PATENT-3,574,467			US-PATENT-APPL-SN-286620
		US-PATENT-APPL-SN-838630			NASA-CASE-XAC-00048			US-PATENT-3,262,395
		US-PATENT-CLASS-250-219	N71-29128*	c 02	US-PATENT-APPL-SN-765264	N71-30265*	c 14	NASA-CASE-HQN-10780
		US-PATENT-CLASS-356-209			US-PATENT-CLASS-121-38			US-PATENT-APPL-SN-247136
		US-PATENT-3,574,470			US-PATENT-2,898,889			US-PATENT-CLASS-73-497

N71-30292*	c 23	US-PATENT-3,270,565	N71-34044* #	c 03	US-PATENT-CLASS-329-145	N72-11365*	c 14	US-PATENT-CLASS-73-95
		NASA-CASE-HQN-10781			US-PATENT-3,588,705			US-PATENT-3,592,545
		US-PATENT-APPL-SN-86018			NASA-CASE-NPO-11190			NASA-CASE-MFS-20485
N71-33108*	c 07	US-PATENT-3,239,660	N71-34212* #	c 09	US-PATENT-APPL-SN-115944	N72-11385*	c 15	US-PATENT-APPL-SN-22320
		NASA-CASE-KSC-10164			NASA-CASE-MFS-20935			US-PATENT-CLASS-250-43.5FC
		US-PATENT-APPL-SN-782955			US-PATENT-APPL-SN-136007			US-PATENT-CLASS-73-194F
N71-33109*	c 09	US-PATENT-CLASS-179-1R	N71-34389* #	c 14	NASA-CASE-HQN-10683	N72-11386*	c 15	US-PATENT-3,599,489
		US-PATENT-CLASS-179-1VC			US-PATENT-APPL-SN-146217			NASA-CASE-MFS-18495
		US-PATENT-3,588,359			NASA-CASE-HQN-10537-1			US-PATENT-APPL-SN-38814
N71-33110*	c 08	NASA-CASE-ARC-10101-1	N72-10138* #	c 06	US-PATENT-APPL-SN-112366	N72-11387*	c 15	US-PATENT-CLASS-24-211N
		US-PATENT-APPL-SN-793823			NASA-CASE-GSC-11095-1			US-PATENT-CLASS-85-5B
		US-PATENT-CLASS-307-251			US-PATENT-APPL-SN-147940			US-PATENT-3,596,554
N71-33110*	c 08	US-PATENT-CLASS-307-261	N72-11018*	c 02	NASA-CASE-LAR-10557	N72-11388*	c 15	NASA-CASE-MFS-20249
		US-PATENT-CLASS-321-47			US-PATENT-APPL-SN-853746			US-PATENT-APPL-SN-794530
		US-PATENT-3,588,671			US-PATENT-CLASS-416-115			US-PATENT-CLASS-248-183
N71-33129*	c 10	NASA-CASE-GSC-10186	N72-11062*	c 03	US-PATENT-CLASS-416-121	N72-11389*	c 15	US-PATENT-CLASS-248-278
		US-PATENT-APPL-SN-713188			US-PATENT-CLASS-416-127			US-PATENT-CLASS-248-487
		US-PATENT-CLASS-235-164			US-PATENT-CLASS-416-130			US-PATENT-CLASS-33-72
N71-33129*	c 10	US-PATENT-CLASS-235-175	N72-11084*	c 05	US-PATENT-CLASS-416-149	N72-11390*	c 15	US-PATENT-CLASS-350-285
		US-PATENT-3,588,483			US-PATENT-CLASS-416-200			US-PATENT-CLASS-350-287
		NASA-CASE-GSC-10667-1			US-PATENT-3,592,559			US-PATENT-3,596,863
N71-33160*	c 31	US-PATENT-APPL-SN-749548	N72-11085*	c 05	NASA-CASE-XGS-04047-2	N72-11387*	c 15	NASA-CASE-XMF-09902
		US-PATENT-CLASS-330-11			US-PATENT-APPL-SN-843251			US-PATENT-APPL-SN-769665
		US-PATENT-CLASS-330-16			US-PATENT-CLASS-136-206			US-PATENT-CLASS-75-20F
N71-33160*	c 31	US-PATENT-CLASS-330-24	N72-11084*	c 05	US-PATENT-3,597,281	N72-11388*	c 15	US-PATENT-3,592,628
		US-PATENT-3,585,514			NASA-CASE-NPO-10677			NASA-CASE-MFS-20423
		NASA-CASE-XLA-04063			US-PATENT-APPL-SN-868530			US-PATENT-APPL-SN-865298
N71-33229*	c 23	US-PATENT-APPL-SN-802948	N72-11085*	c 05	US-PATENT-CLASS-62-467	N72-11389*	c 15	US-PATENT-CLASS-212-134
		US-PATENT-CLASS-179-1			US-PATENT-CLASS-62-56			US-PATENT-CLASS-308-5
		US-PATENT-CLASS-244-1			US-PATENT-3,599,443			US-PATENT-3,600,046
N71-33229*	c 23	US-PATENT-CLASS-244-83	N72-11085*	c 05	NASA-CASE-MS-13140	N72-11389*	c 15	NASA-CASE-XLA-05056
		US-PATENT-3,586,261			US-PATENT-APPL-SN-796358			US-PATENT-APPL-SN-596733
		NASA-CASE-NPO-10468			US-PATENT-CLASS-285-410			US-PATENT-CLASS-210-445
N71-33229*	c 23	US-PATENT-APPL-SN-787846	N72-11085*	c 05	US-PATENT-CLASS-297-232	N72-11390*	c 15	US-PATENT-3,592,768
		US-PATENT-CLASS-350-310			US-PATENT-CLASS-297-68			NASA-CASE-MFS-18100
		US-PATENT-CLASS-350-55			US-PATENT-CLASS-5-69			US-PATENT-APPL-SN-784055
N71-33407*	c 10	US-PATENT-3,588,220	N72-11148*	c 07	US-PATENT-3,592,505	N72-11391*	c 15	US-PATENT-CLASS-15-143
		NASA-CASE-NPO-10342			NASA-CASE-NPO-10301			US-PATENT-CLASS-15-210
		US-PATENT-APPL-SN-704446			US-PATENT-APPL-SN-848810			US-PATENT-3,591,885
N71-33407*	c 10	US-PATENT-CLASS-178-69.5	N72-11148*	c 07	US-PATENT-CLASS-343-771	N72-11391*	c 15	NASA-CASE-NPO-11012
		US-PATENT-CLASS-179-15B5			US-PATENT-CLASS-343-853			US-PATENT-APPL-SN-845807
		US-PATENT-CLASS-340-347DD			US-PATENT-3,599,216			US-PATENT-CLASS-248-18
N71-33408*	c 17	US-PATENT-3,588,883	N72-11149*	c 07	NASA-CASE-GSC-10390-1	N72-11392*	c 15	US-PATENT-CLASS-248-20
		NASA-CASE-LEW-10327			US-PATENT-APPL-SN-749121			US-PATENT-3,592,422
		US-PATENT-APPL-SN-772006			US-PATENT-CLASS-325-39			NASA-CASE-MFS-20299
N71-33408*	c 17	US-PATENT-CLASS-148-6.3	N72-11149*	c 07	US-PATENT-CLASS-325-4	N72-11392*	c 15	US-PATENT-APPL-SN-889437
		US-PATENT-3,591,426			US-PATENT-CLASS-325-58			US-PATENT-CLASS-156-320
		NASA-CASE-ARC-10050			US-PATENT-CLASS-343-179			US-PATENT-CLASS-156-66
N71-33409*	c 03	US-PATENT-APPL-SN-797219	N72-11149*	c 07	US-PATENT-CLASS-343-50P	N72-11393*	c 15	US-PATENT-CLASS-219-221
		US-PATENT-CLASS-136-89			US-PATENT-CLASS-343-7.5			US-PATENT-CLASS-219-243
		US-PATENT-3,591,420			US-PATENT-3,593,138			US-PATENT-3,593,001
N71-33410*	c 16	NASA-CASE-NPO-10417	N72-11150*	c 07	NASA-CASE-NPO-11064	N72-11568* #	c 23	NASA-CASE-GSC-11133-1
		US-PATENT-APPL-SN-753974			US-PATENT-APPL-SN-880248			US-PATENT-APPL-SN-121328
		US-PATENT-CLASS-331-94.5			US-PATENT-CLASS-331-10			US-PATENT-CLASS-239-265.19
N71-33410*	c 16	US-PATENT-CLASS-352-84	N72-11150*	c 07	US-PATENT-CLASS-331-34	N72-11595*	c 24	US-PATENT-APPL-SN-855004
		US-PATENT-CLASS-95-11			US-PATENT-CLASS-331-66			US-PATENT-CLASS-250-49.5B
		US-PATENT-3,587,424			US-PATENT-CLASS-331-7			US-PATENT-CLASS-250-49.5TE
N71-33518*	c 15	NASA-CASE-XLA-03661	N72-11171*	c 08	US-PATENT-3,593,180	N72-11596*	c 24	US-PATENT-CLASS-250-51
		US-PATENT-APPL-SN-751266			NASA-CASE-NPO-10769			US-PATENT-CLASS-250-52
		US-PATENT-CLASS-408-137			US-PATENT-APPL-SN-813494			US-PATENT-3,593,024
N71-33518*	c 15	US-PATENT-CLASS-90-11	N72-11171*	c 08	US-PATENT-CLASS-179-15.55R	N72-11708*	c 28	NASA-CASE-MFS-20619
		US-PATENT-3,585,882			US-PATENT-3,598,921			US-PATENT-APPL-SN-18982
		NASA-CASE-ERC-10100			NASA-CASE-GSC-10880-1			US-PATENT-CLASS-139-425R
N71-33519*	c 09	US-PATENT-APPL-SN-766697	N72-11172*	c 08	US-PATENT-APPL-SN-831118	N72-11709*	c 28	US-PATENT-CLASS-239-265.19
		US-PATENT-CLASS-313-109.5			US-PATENT-CLASS-235-61NV			US-PATENT-CLASS-239-265.43
		US-PATENT-CLASS-313-231			US-PATENT-CLASS-33-15A			US-PATENT-CLASS-60-271
N71-33519*	c 09	US-PATENT-CLASS-315-108	N72-11172*	c 08	US-PATENT-CLASS-33-204C	N72-12080*	c 07	US-PATENT-3,596,465
		US-PATENT-CLASS-315-111			US-PATENT-3,599,335			NASA-CASE-NPO-10737
		US-PATENT-CLASS-340-324			NASA-CASE-GSC-10614-1			US-PATENT-APPL-SN-760114
N71-33519*	c 09	US-PATENT-CLASS-340-336	N72-11224*	c 09	US-PATENT-APPL-SN-822534	N72-12081*	c 07	US-PATENT-CLASS-60-202
		US-PATENT-3,588,874			US-PATENT-CLASS-179-100-2CA			US-PATENT-CLASS-60-39-48
		NASA-CASE-NPO-11031			US-PATENT-CLASS-179-100-2MD			US-PATENT-3,591,967
N71-33606*	c 07	US-PATENT-APPL-SN-864097	N72-11225*	c 09	US-PATENT-CLASS-274-4R	N72-12082*	c 07	NASA-CASE-GSC-10087-3
		US-PATENT-CLASS-333-21A			US-PATENT-3,592,478			US-PATENT-APPL-SN-880885
		US-PATENT-CLASS-333-6			NASA-CASE-KSC-10162			US-PATENT-CLASS-325-4
N71-33612*	c 11	US-PATENT-CLASS-333-7	N72-11225*	c 09	US-PATENT-APPL-SN-817481	N72-12083*	c 07	US-PATENT-CLASS-343-6.5R
		US-PATENT-3,588,751			US-PATENT-CLASS-324-102			US-PATENT-CLASS-343-6.8R
		NASA-CASE-XLA-09480			US-PATENT-CLASS-324-119			US-PATENT-3,594,790
N71-33612*	c 11	US-PATENT-APPL-SN-874435	N72-12081*	c 07	US-PATENT-CLASS-324-123R	N72-12081*	c 07	NASA-CASE-GSC-10185-1
		US-PATENT-CLASS-73-147			US-PATENT-3,593,132			US-PATENT-APPL-SN-733039
		US-PATENT-3,587,306			NASA-CASE-ARC-10042-2			US-PATENT-CLASS-178-DIG.12
N71-33613*	c 07	NASA-CASE-NPO-10700	N72-11256*	c 10	US-PATENT-APPL-SN-33159	N72-12082*	c 07	US-PATENT-CLASS-178-6
		US-PATENT-APPL-SN-840308			US-PATENT-CLASS-330-107			US-PATENT-CLASS-178-7.3
		US-PATENT-CLASS-318-227			US-PATENT-CLASS-330-109			US-PATENT-CLASS-325-10
N71-33613*	c 07	US-PATENT-CLASS-318-230	N72-11256*	c 10	US-PATENT-3,593,175	N72-12083*	c 07	US-PATENT-CLASS-325-13
		US-PATENT-3,588,648			NASA-CASE-MS-11847-1			US-PATENT-3,588,331
		NASA-CASE-MSC-12165-1			US-PATENT-APPL-SN-8497			NASA-CASE-XER-09521
N71-33696*	c 07	US-PATENT-APPL-SN-875849	N72-11363*	c 14	US-PATENT-CLASS-73-149	N72-12136*	c 09	US-PATENT-APPL-SN-771530
		US-PATENT-CLASS-325-347			US-PATENT-CLASS-73-290B			US-PATENT-CLASS-136-202
		US-PATENT-CLASS-325-348			US-PATENT-3,596,510			US-PATENT-CLASS-136-206
N71-33696*	c 07	US-PATENT-CLASS-325-473	N72-11364*	c 14	NASA-CASE-NPO-10778	N72-12408*	c 15	US-PATENT-CLASS-136-227
		US-PATENT-CLASS-325-478			US-PATENT-APPL-SN-865909			US-PATENT-CLASS-343-DIG.3
		US-PATENT-CLASS-325-480			US-PATENT-CLASS-250-235			US-PATENT-CLASS-343-720
N71-33696*	c 07	US-PATENT-CLASS-325-482	N72-11364*	c 14	US-PATENT-CLASS-33-125	N72-12409*	c 15	US-PATENT-CLASS-343-803
		US-PATENT-CLASS-328-164			US-PATENT-CLASS-356-167			US-PATENT-3,594,803
		US-PATENT-CLASS-328-165			US-PATENT-CLASS-356-32			

		US-PATENT-APPL-SN-784544		US-PATENT-APPL-SN-887698	N72-17451*	c 15	NASA-CASE-WLP-10002
		US-PATENT-CLASS-140-105		US-PATENT-CLASS-128-2.1A			US-PATENT-APPL-SN-47062
		US-PATENT-CLASS-72-307		US-PATENT-CLASS-307-252F			US-PATENT-CLASS-180-125
		US-PATENT-3,584,660		US-PATENT-CLASS-307-252J			US-PATENT-CLASS-180-127
N72-12409*	c 15	NASA-CASE-NPO-10637		US-PATENT-CLASS-325-492			US-PATENT-CLASS-308-DIG.1
		US-PATENT-APPL-SN-851298		US-PATENT-CLASS-340-177			US-PATENT-CLASS-308-5
		US-PATENT-CLASS-236-68	N72-17154*	US-PATENT-3,603,946			US-PATENT-CLASS-308-9
		US-PATENT-CLASS-337-354		NASA-CASE-ERC-10139	N72-17452*	c 15	US-PATENT-3,610,365
		US-PATENT-CLASS-337-359		US-PATENT-APPL-SN-889555			NASA-CASE-XLA-10322
		US-PATENT-CLASS-337-75		US-PATENT-CLASS-321-10			US-PATENT-APPL-SN-887699
		US-PATENT-CLASS-60-23		US-PATENT-CLASS-336-178			US-PATENT-CLASS-73-88.5R
		US-PATENT-3,591,960		US-PATENT-3,603,864			US-PATENT-3,608,365
N72-12440*	c 16	NASA-CASE-MFS-20180	N72-17155*	NASA-CASE-NPO-11023	N72-17453*	c 15	NASA-CASE-NPO-11177
		US-PATENT-APPL-SN-863276		US-PATENT-APPL-SN-865274			US-PATENT-APPL-SN-20960
		US-PATENT-CLASS-331-94.5		US-PATENT-CLASS-330-18			US-PATENT-CLASS-62-51
		US-PATENT-CLASS-350-1		US-PATENT-CLASS-330-40			US-PATENT-3,605,424
		US-PATENT-CLASS-350-312		US-PATENT-3,603,892	N72-17454*	c 15	NASA-CASE-NPO-11059
		US-PATENT-3,593,194	N72-17156*	NASA-CASE-NPO-10199			US-PATENT-APPL-SN-864020
N72-13437*	c 16	NASA-CASE-MFS-20125		US-PATENT-APPL-SN-739391			US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-830366		US-PATENT-CLASS-178-7.1			US-PATENT-3,606,979
		US-PATENT-CLASS-178-DIG.21		US-PATENT-CLASS-330-11	N72-17455*	c 15	NASA-CASE-NPO-11140
		US-PATENT-CLASS-178-6		US-PATENT-CLASS-330-35			US-PATENT-APPL-SN-15019
		US-PATENT-CLASS-250-203X		US-PATENT-3,609,230			US-PATENT-CLASS-174-84
		US-PATENT-CLASS-356-152	N72-17157*	NASA-CASE-NPO-11253			US-PATENT-CLASS-200-64
		US-PATENT-3,603,686		US-PATENT-APPL-SN-21906			US-PATENT-CLASS-339-176M
N72-15098* #	c 05	NASA-CASE-MSC-13917-1		US-PATENT-CLASS-307-223			US-PATENT-CLASS-339-278M
		US-PATENT-APPL-SN-198355		US-PATENT-CLASS-307-227			US-PATENT-CLASS-339-46
N72-15986*	c 03	NASA-CASE-XGS-10010		US-PATENT-CLASS-307-81			US-PATENT-CLASS-89-1.811
		US-PATENT-APPL-SN-729299		US-PATENT-CLASS-328-186			US-PATENT-3,611,274
		US-PATENT-CLASS-136-133		US-PATENT-3,609,387	N72-17532*	c 18	NASA-CASE-MFS-13532
		US-PATENT-CLASS-136-135	N72-17171*	NASA-CASE-XAC-05462-2			US-PATENT-APPL-SN-720546
		US-PATENT-CLASS-136-6		US-PATENT-APPL-SN-28235			US-PATENT-CLASS-106-292
		US-PATENT-3,607,401		US-PATENT-CLASS-307-295			US-PATENT-CLASS-106-299
N72-16015*	c 05	NASA-CASE-KSC-10278		US-PATENT-CLASS-328-167			US-PATENT-3,607,338
		US-PATENT-APPL-SN-856327		US-PATENT-CLASS-330-109	N72-17747*	c 23	NASA-CASE-ERC-10089
		US-PATENT-CLASS-324-66		US-PATENT-CLASS-330-176			US-PATENT-APPL-SN-791267
		US-PATENT-CLASS-340-279		US-PATENT-CLASS-333-70C0R			US-PATENT-CLASS-340-174AG
		US-PATENT-CLASS-35-8		US-PATENT-3,609,567			US-PATENT-CLASS-340-174CT
		US-PATENT-3,609,740	N72-17172*	NASA-CASE-ARC-10020			US-PATENT-CLASS-340-174GA
N72-16172*	c 10	NASA-CASE-ARC-10269-1		US-PATENT-APPL-SN-31885			US-PATENT-CLASS-340-174SC
		US-PATENT-APPL-SN-56791		US-PATENT-CLASS-330-107			US-PATENT-3,611,330
		US-PATENT-CLASS-307-230		US-PATENT-CLASS-330-109	N72-17820*	c 26	NASA-CASE-XER-08476-1
		US-PATENT-CLASS-307-262		US-PATENT-CLASS-330-26			US-PATENT-APPL-SN-672388
		US-PATENT-CLASS-328-155		US-PATENT-CLASS-330-31			US-PATENT-CLASS-148-187
		US-PATENT-3,614,475		US-PATENT-CLASS-330-94			US-PATENT-CLASS-29-578
N72-16282*	c 14	NASA-CASE-LAR-10913		US-PATENT-3,605,032			US-PATENT-CLASS-29-589
		US-PATENT-APPL-SN-779160	N72-17173*	NASA-CASE-MFS-13130			US-PATENT-3,602,984
		US-PATENT-CLASS-73-12		US-PATENT-APPL-SN-7868	N72-17843*	c 28	NASA-CASE-NPO-10046
		US-PATENT-3,605,482		US-PATENT-CLASS-250-209			US-PATENT-APPL-SN-860635
N72-16283*	c 14	NASA-CASE-GSC-10780-1		US-PATENT-CLASS-250-83.3UV			US-PATENT-CLASS-60-258
		US-PATENT-APPL-SN-860493		US-PATENT-CLASS-340-228.2			US-PATENT-CLASS-60-39.74
		US-PATENT-CLASS-82-24R		US-PATENT-3,609,364			US-PATENT-3,603,092
		US-PATENT-3,608,409	N72-17183*	NASA-CASE-MFS-20509	N72-17873*	c 30	NASA-CASE-ARC-10134
N72-16329*	c 15	NASA-CASE-XLA-07829		US-PATENT-APPL-SN-889557			US-PATENT-APPL-SN-819898
		US-PATENT-APPL-SN-763684		US-PATENT-CLASS-73-147			US-PATENT-CLASS-244-3.21
		US-PATENT-CLASS-264-DIG.44		US-PATENT-3,602,920			US-PATENT-3,603,532
		US-PATENT-CLASS-264-221	N72-17329*	NASA-CASE-ERC-10248	N72-17947*	c 33	NASA-CASE-MSC-12143-1
		US-PATENT-CLASS-264-225		US-PATENT-APPL-SN-868445			US-PATENT-APPL-SN-791268
		US-PATENT-CLASS-264-227		US-PATENT-CLASS-350-162			US-PATENT-CLASS-102-105
		US-PATENT-3,608,046		US-PATENT-CLASS-356-113			US-PATENT-CLASS-161-67
N72-16330*	c 15	NASA-CASE-LAR-10203-1		US-PATENT-CLASS-356-209			US-PATENT-CLASS-244-117
		US-PATENT-APPL-SN-769592		US-PATENT-CLASS-356-244			US-PATENT-3,603,260
		US-PATENT-CLASS-156-84		US-PATENT-3,603,690	N72-17948*	c 33	NASA-CASE-NPO-10828
		US-PATENT-CLASS-156-86		NASA-CASE-MFS-20596			US-PATENT-APPL-SN-873260
		US-PATENT-3,607,495		US-PATENT-APPL-SN-7867			US-PATENT-CLASS-165-105
N72-17093*	c 06	NASA-CASE-LEW-10794-1		US-PATENT-CLASS-350-3.5			US-PATENT-3,603,382
		US-PATENT-APPL-SN-33535		US-PATENT-3,605,519	N72-18184*	c 08	NASA-CASE-NPO-10629
		US-PATENT-CLASS-23-55	N72-17325*	NASA-CASE-MSC-15158-1			US-PATENT-APPL-SN-860751
		US-PATENT-CLASS-23-88		US-PATENT-APPL-SN-889479			US-PATENT-CLASS-178-50
		US-PATENT-CLASS-23-97		US-PATENT-CLASS-324-52			US-PATENT-CLASS-178-66
		US-PATENT-3,607,015		US-PATENT-3,609,535			US-PATENT-CLASS-179-15
N72-17094*	c 06	NASA-CASE-NPO-10234		NASA-CASE-XMS-01994-1			US-PATENT-CLASS-235-154
		US-PATENT-APPL-SN-800204		US-PATENT-APPL-SN-814212			US-PATENT-CLASS-340-347DD
		US-PATENT-CLASS-23-230R		US-PATENT-CLASS-356-4			US-PATENT-3,603,976
		US-PATENT-CLASS-23-232C		US-PATENT-3,603,683	N72-18411*	c 14	NASA-CASE-KSC-10294
		US-PATENT-CLASS-23-253PC		NASA-CASE-LEW-10281-1			US-PATENT-APPL-SN-889556
		US-PATENT-CLASS-73-23.1		US-PATENT-APPL-SN-861649			US-PATENT-CLASS-307-311
		US-PATENT-3,607,076		US-PATENT-CLASS-73-198			US-PATENT-CLASS-346-107A
N72-17095*	c 06	NASA-CASE-NPO-10774		US-PATENT-3,605,495			US-PATENT-CLASS-346-23
		US-PATENT-APPL-SN-848805	N72-17328*	NASA-CASE-XLA-07813			US-PATENT-CLASS-352-84
		US-PATENT-CLASS-23-201		US-PATENT-APPL-SN-791364			US-PATENT-CLASS-95-1.1
		US-PATENT-CLASS-23-230		US-PATENT-CLASS-250-207			US-PATENT-3,603,974
		US-PATENT-CLASS-23-253		US-PATENT-CLASS-250-41.9	N72-18477*	c 15	NASA-CASE-GSC-10566-1
		US-PATENT-CLASS-73-76		US-PATENT-CLASS-250-49.5			US-PATENT-APPL-SN-889438
		US-PATENT-3,607,080		US-PATENT-CLASS-250-71.5			US-PATENT-CLASS-242-54
N72-17109*	c 07	NASA-CASE-MSC-12146-1		US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-52-108
		US-PATENT-APPL-SN-50206		US-PATENT-3,609,353			US-PATENT-3,608,844
		US-PATENT-CLASS-178-5.2R	N72-17329*	NASA-CASE-FRC-10012	N72-18766*	c 28	NASA-CASE-GSC-10640-1
		US-PATENT-CLASS-178-5.4		US-PATENT-APPL-SN-771216			US-PATENT-APPL-SN-17101
		US-PATENT-CLASS-178-6.7		US-PATENT-CLASS-73-194A			US-PATENT-CLASS-23-281
		US-PATENT-3,603,722		US-PATENT-3,611,801			US-PATENT-CLASS-23-288
N72-17152*	c 09	NASA-CASE-ARC-10178-1	N72-17450*	NASA-CASE-MSC-12279			US-PATENT-CLASS-60-260
		US-PATENT-APPL-SN-47443		US-PATENT-APPL-SN-24154			US-PATENT-3,603,093
		US-PATENT-CLASS-250-211J		US-PATENT-CLASS-188-1C	N72-18859*	c 31	NASA-CASE-MSC-13281
		US-PATENT-3,603,798		US-PATENT-CLASS-188-129			US-PATENT-APPL-SN-7669
N72-17153*	c 09	NASA-CASE-ARC-10105		US-PATENT-3,603,433			US-PATENT-CLASS-244-15.5

N72-20031*	c 03	US-PATENT-3,606,212	US-PATENT-CLASS-307-313	US-PATENT-APPL-SN-10161
		NASA-CASE-GSC-10669-1	US-PATENT-CLASS-328-207	US-PATENT-CLASS-122-32
		US-PATENT-APPL-SN-90595	US-PATENT-CLASS-330-300	US-PATENT-CLASS-165-133
		US-PATENT-CLASS-136-89	US-PATENT-3,633,048	US-PATENT-CLASS-165-155
N72-20032*	c 03	US-PATENT-CLASS-244-ISS	NASA-CASE-XLA-11189	US-PATENT-CLASS-165-158
		US-PATENT-CLASS-340-210	US-PATENT-APPL-SN-889375	US-PATENT-CLASS-165-161
		US-PATENT-3,636,539	US-PATENT-CLASS-324-115	US-PATENT-CLASS-165-174
		NASA-CASE-NPO-11021	US-PATENT-CLASS-324-132	US-PATENT-3,630,276
N72-20033*	c 03	US-PATENT-APPL-SN-880250	US-PATENT-3,638,114	NASA-CASE-ERC-10108
		US-PATENT-CLASS-136-166	NASA-CASE-NPO-11133	US-PATENT-APPL-SN-833049
		US-PATENT-CLASS-136-79	US-PATENT-APPL-SN-887685	US-PATENT-CLASS-156-3
		US-PATENT-CLASS-136-81	US-PATENT-CLASS-307-295	US-PATENT-CLASS-96-36.2
N72-20034*	c 03	US-PATENT-3,625,766	US-PATENT-CLASS-328-16	US-PATENT-3,615,465
		NASA-CASE-NPO-10401	US-PATENT-CLASS-328-166	N72-21105* # c 06
		US-PATENT-APPL-SN-15025	US-PATENT-CLASS-328-20	NASA-CASE-GSC-11304-1
		US-PATENT-CLASS-210-212	US-PATENT-CLASS-328-38	US-PATENT-APPL-SN-137912
N72-20034*	c 03	US-PATENT-CLASS-356-222	US-PATENT-3,626,308	N72-21117* c 07
		US-PATENT-3,630,627	NASA-CASE-NPO-11203	NASA-CASE-XLA-11154
		NASA-CASE-LEW-11359-2	US-PATENT-APPL-SN-3696	US-PATENT-APPL-SN-23532
		US-PATENT-APPL-SN-57399	US-PATENT-CLASS-324-83A	US-PATENT-CLASS-343-706
N72-20034*	c 03	US-PATENT-CLASS-136-100R	US-PATENT-CLASS-324-85	US-PATENT-CLASS-343-912
		US-PATENT-CLASS-136-175	US-PATENT-CLASS-328-133	US-PATENT-3,623,107
		US-PATENT-CLASS-136-83R	US-PATENT-CLASS-343-12	N72-21118* c 07
		US-PATENT-3,635,765	US-PATENT-3,631,351	NASA-CASE-NPO-11001
N72-20096*	c 05	NASA-CASE-MSC-12411-1	NASA-CASE-MSC-13407-1	US-PATENT-APPL-SN-856279
		US-PATENT-APPL-SN-701244	US-PATENT-APPL-SN-65840	US-PATENT-CLASS-343-100ST
		US-PATENT-CLASS-128-142.5	US-PATENT-CLASS-315-22	US-PATENT-CLASS-343-5CM
		US-PATENT-CLASS-128-402	US-PATENT-CLASS-315-25	US-PATENT-CLASS-343-6.5R
N72-20097*	c 05	US-PATENT-CLASS-2-2.1	US-PATENT-3,638,066	US-PATENT-3,624,650
		US-PATENT-3,635,216	NASA-CASE-NPO-11210	N72-21119* c 07
		NASA-CASE-MFS-20332	US-PATENT-APPL-SN-880831	NASA-CASE-ERC-10112
		US-PATENT-APPL-SN-869260	US-PATENT-CLASS-123-102	US-PATENT-APPL-SN-796690
N72-20098*	c 05	US-PATENT-CLASS-137-469	US-PATENT-CLASS-180-105E	US-PATENT-CLASS-179-100.2K
		US-PATENT-CLASS-137-81	US-PATENT-CLASS-318-308	US-PATENT-3,614,343
		US-PATENT-3,636,966	US-PATENT-CLASS-318-327	NASA-CASE-KSC-10326
		NASA-CASE-MSC-12398	US-PATENT-CLASS-318-376	US-PATENT-APPL-SN-25487
N72-20121*	c 06	US-PATENT-APPL-SN-785615	US-PATENT-3,630,304	US-PATENT-CLASS-235-155
		US-PATENT-CLASS-2-2.1	NASA-CASE-GSC-10514-1	US-PATENT-CLASS-340-347DD
		US-PATENT-3,624,839	US-PATENT-APPL-SN-873045	US-PATENT-3,638,002
		NASA-CASE-NPO-10765	US-PATENT-CLASS-250-208	N72-21198* c 08
N72-20140*	c 07	US-PATENT-APPL-SN-770425	US-PATENT-CLASS-356-138	NASA-CASE-ERC-10307
		US-PATENT-CLASS-260-544F	US-PATENT-CLASS-356-152	US-PATENT-APPL-SN-39755
		US-PATENT-3,637,842	US-PATENT-3,637,312	US-PATENT-CLASS-307-299
		NASA-CASE-NPO-10844	NASA-CASE-LAR-10176-1	US-PATENT-CLASS-307-303
N72-20141*	c 07	US-PATENT-APPL-SN-839934	US-PATENT-APPL-SN-811038	US-PATENT-CLASS-307-311
		US-PATENT-CLASS-178-69.5R	US-PATENT-CLASS-95-18	US-PATENT-CLASS-340-173.2
		US-PATENT-CLASS-179-15BS	US-PATENT-3,626,828	US-PATENT-CLASS-340-173LS
		US-PATENT-CLASS-325-321	NASA-CASE-GSC-10503-1	US-PATENT-3,623,030
N72-20141*	c 07	US-PATENT-CLASS-325-38	US-PATENT-APPL-SN-789044	N72-21199* c 08
		US-PATENT-CLASS-325-4	US-PATENT-CLASS-250-83.6R	NASA-CASE-NPO-10743
		US-PATENT-CLASS-325-58	US-PATENT-3,626,189	US-PATENT-APPL-SN-850587
		US-PATENT-3,626,298	NASA-CASE-GSC-10607-1	US-PATENT-CLASS-340-174CS
N72-20154* #	c 07	NASA-CASE-ERC-10179	US-PATENT-APPL-SN-27340	US-PATENT-CLASS-340-174LC
		US-PATENT-APPL-SN-50207	US-PATENT-CLASS-251-129	US-PATENT-CLASS-340-174M
		US-PATENT-CLASS-325-445	US-PATENT-CLASS-251-333	US-PATENT-CLASS-340-174SR
		US-PATENT-CLASS-329-161	US-PATENT-3,632,081	US-PATENT-3,613,110
N72-20176*	c 08	US-PATENT-CLASS-329-162	NASA-CASE-NPO-10671	N72-21200* c 08
		US-PATENT-CLASS-332-51W	US-PATENT-APPL-SN-857967	NASA-CASE-NPO-11018
		US-PATENT-CLASS-333-73W	US-PATENT-CLASS-188-1C	US-PATENT-APPL-SN-873259
		US-PATENT-CLASS-343-772	US-PATENT-CLASS-188-268	US-PATENT-CLASS-340-347AD
N72-20177*	c 08	US-PATENT-CLASS-343-773	US-PATENT-3,637,051	US-PATENT-3,613,111
		US-PATENT-CLASS-343-786	NASA-CASE-FRC-10038	N72-21243* c 09
		US-PATENT-3,633,110	US-PATENT-APPL-SN-889554	NASA-CASE-LEW-11005-1
		NASA-CASE-NPO-11243	US-PATENT-CLASS-29-412	US-PATENT-APPL-SN-86548
N72-20199*	c 09	US-PATENT-APPL-SN-17753	US-PATENT-CLASS-29-426	US-PATENT-CLASS-323-DIG.1
		NASA-CASE-NPO-11130	US-PATENT-CLASS-29-527.2	US-PATENT-CLASS-323-22T
		US-PATENT-APPL-SN-21508	US-PATENT-CLASS-29-624	US-PATENT-CLASS-323-38
		US-PATENT-CLASS-235-152	US-PATENT-CLASS-51-210	US-PATENT-3,638,103
N72-20200*	c 09	US-PATENT-CLASS-235-92CC	US-PATENT-CLASS-51-216	N72-21244* c 09
		US-PATENT-CLASS-235-92DE	US-PATENT-CLASS-51-323	NASA-CASE-LAR-10545-1
		US-PATENT-CLASS-235-92DM	US-PATENT-3,636,623	US-PATENT-APPL-SN-31703
		US-PATENT-CLASS-235-92LG	NASA-CASE-NPO-10704	US-PATENT-CLASS-343-771
N72-20206* #	c 09	US-PATENT-CLASS-235-92R	US-PATENT-APPL-SN-59895	US-PATENT-CLASS-343-893
		US-PATENT-CLASS-340-347DA	US-PATENT-CLASS-138-178	US-PATENT-3,638,224
		US-PATENT-CLASS-340-347DD	US-PATENT-CLASS-285-18	N72-21245* c 09
		US-PATENT-3,632,996	US-PATENT-CLASS-285-345	NASA-CASE-ARC-10192
N72-20221*	c 10	NASA-CASE-NPO-10748	US-PATENT-3,632,140	US-PATENT-APPL-SN-15024
		US-PATENT-APPL-SN-63383	NASA-CASE-MFS-20698	US-PATENT-CLASS-307-230
		US-PATENT-CLASS-324-77G	US-PATENT-APPL-SN-3418	US-PATENT-CLASS-307-295
		US-PATENT-3,631,339	US-PATENT-CLASS-100-299	US-PATENT-CLASS-328-142
N72-20221*	c 10	US-PATENT-CLASS-333-73W	US-PATENT-CLASS-23-209.1	US-PATENT-CLASS-328-167
		US-PATENT-CLASS-343-772	US-PATENT-CLASS-264-22	US-PATENT-CLASS-330-70R
		US-PATENT-CLASS-343-773	US-PATENT-CLASS-425-77	US-PATENT-CLASS-330-85
		US-PATENT-CLASS-343-786	US-PATENT-3,632,242	US-PATENT-CLASS-333-80
N72-20221*	c 10	US-PATENT-3,633,110	NASA-CASE-XLE-04599	US-PATENT-3,621,407
		NASA-CASE-NPO-10694	US-PATENT-APPL-SN-751215	N72-21246* c 09
		US-PATENT-APPL-SN-24224	US-PATENT-CLASS-176-86G	NASA-CASE-NPO-11134
		US-PATENT-CLASS-339-275T	US-PATENT-3,629,068	US-PATENT-APPL-SN-883524
N72-20221*	c 10	US-PATENT-CLASS-339-276T	NASA-CASE-XNP-03282	US-PATENT-CLASS-318-576
		US-PATENT-3,631,382	US-PATENT-APPL-SN-745337	US-PATENT-CLASS-324-71R
		NASA-CASE-ERC-10468	US-PATENT-CLASS-60-254	US-PATENT-CLASS-346-1
		US-PATENT-APPL-SN-144958	US-PATENT-3,636,711	US-PATENT-CLASS-346-29
N72-20221*	c 10	NASA-CASE-GSC-10082-1	NASA-CASE-MFS-20922	US-PATENT-3,624,659
		US-PATENT-APPL-SN-41430	US-PATENT-APPL-SN-220274	N72-21247* c 09
		US-PATENT-CLASS-307-273	NASA-CASE-NPO-10831	NASA-CASE-KSC-10393
		US-PATENT-CLASS-307-288		US-PATENT-APPL-SN-71047
N72-20221*	c 10			US-PATENT-CLASS-307-257
				US-PATENT-CLASS-307-259
				US-PATENT-CLASS-331-111
				US-PATENT-CLASS-331-14
N72-20221*	c 10			US-PATENT-CLASS-331-23
				US-PATENT-CLASS-331-30
				US-PATENT-3,614,648
				N72-21248* # c 09
N72-20221*	c 10			NASA-CASE-LAR-10503-1
				US-PATENT-APPL-SN-229143
				N72-21310* c 12
				NASA-CASE-MFS-20829
N72-20221*	c 10			US-PATENT-APPL-SN-61894
				US-PATENT-CLASS-169-28

		US-PATENT-CLASS-169-36				US-PATENT-APPL-SN-78065				US-PATENT-CLASS-325-29
		US-PATENT-3,613,794				US-PATENT-CLASS-178-52				US-PATENT-CLASS-325-492
N72-21405*	c 14	NASA-CASE-NPO-10832				US-PATENT-CLASS-179-15A				US-PATENT-CLASS-340-171
		US-PATENT-APPL-SN-22265				US-PATENT-CLASS-179-15BL				US-PATENT-CLASS-340-203
		US-PATENT-CLASS-73-141A				US-PATENT-CLASS-307-243				US-PATENT-3,621,290
		US-PATENT-3,623,360				US-PATENT-CLASS-307-251	N72-22203*	c 09	NASA-CASE-XER-11046	
N72-21407*	c 14	NASA-CASE-MFS-20642				US-PATENT-CLASS-328-104				US-PATENT-APPL-SN-810579
		US-PATENT-APPL-SN-873793				US-PATENT-CLASS-328-154				US-PATENT-CLASS-321-15
		US-PATENT-CLASS-73-147				US-PATENT-3,614,327				US-PATENT-CLASS-321-18
		US-PATENT-3,623,361	N72-22163*	c 08	NASA-CASE-MSC-13110-1					US-PATENT-CLASS-321-2
N72-21408*	c 14	NASA-CASE-MSC-13332-1			US-PATENT-APPL-SN-23132					US-PATENT-CLASS-321-45
		US-PATENT-APPL-SN-77169			US-PATENT-CLASS-340-347AD					US-PATENT-CLASS-331-117
		US-PATENT-CLASS-250-43.5R			US-PATENT-3,614,772					US-PATENT-3,621,362
		US-PATENT-CLASS-250-83.3H	N72-22164*	c 08	NASA-CASE-NPO-10745		N72-22204*	c 09	NASA-CASE-LAR-10137-1	
		US-PATENT-3,614,431			US-PATENT-APPL-SN-878730				US-PATENT-APPL-SN-881041	
N72-21409*	c 14	NASA-CASE-MSC-12105-1			US-PATENT-CLASS-178-DIG.28				US-PATENT-CLASS-200-81R	
		US-PATENT-APPL-SN-763743			US-PATENT-CLASS-178-DIG.36				US-PATENT-CLASS-200-82C	
		US-PATENT-CLASS-356-17			US-PATENT-CLASS-178-6.8				US-PATENT-3,609,271	
		US-PATENT-CLASS-356-18			US-PATENT-CLASS-178-7.2R		N72-22235*	c 10	NASA-CASE-GSC-10064-1	
		US-PATENT-3,614,228			US-PATENT-3,621,130				US-PATENT-APPL-SN-802812	
N72-21462*	c 15	NASA-CASE-NPO-10679	N72-22165*	c 08	NASA-CASE-NPO-11104				US-PATENT-CLASS-343-16M	
		US-PATENT-APPL-SN-848282			US-PATENT-APPL-SN-860750				US-PATENT-CLASS-343-7.4	
		US-PATENT-CLASS-74-89.15			US-PATENT-CLASS-235-150.52				US-PATENT-CLASS-343-779	
		US-PATENT-3,614,898			US-PATENT-CLASS-235-150.53				US-PATENT-CLASS-343-786	
N72-21463*	c 15	NASA-CASE-MFS-20413			US-PATENT-CLASS-235-183		N72-22236*	c 10	NASA-CASE-GSC-10878-1	
		US-PATENT-APPL-SN-69209			US-PATENT-CLASS-235-194				US-PATENT-APPL-SN-889423	
		US-PATENT-CLASS-74-469			US-PATENT-CLASS-235-197				US-PATENT-CLASS-307-206	
		US-PATENT-3,620,095			US-PATENT-CLASS-340-347R				US-PATENT-CLASS-307-215	
N72-21464*	c 15	NASA-CASE-ARC-10176-1	N72-22166*	c 08	US-PATENT-3,621,228				US-PATENT-CLASS-307-322	
		US-PATENT-APPL-SN-889583			NASA-CASE-NPO-10560				US-PATENT-CLASS-307-323	
		US-PATENT-CLASS-324-57R			US-PATENT-APPL-SN-856282				US-PATENT-3,621,277	
		US-PATENT-CLASS-324-64			US-PATENT-CLASS-235-153		N72-22245*	c 11	NASA-CASE-NPO-12109	
		US-PATENT-CLASS-324-71R			US-PATENT-CLASS-324-73AT				US-PATENT-APPL-SN-690172	
		US-PATENT-3,624,496			US-PATENT-CLASS-340-347AD				US-PATENT-CLASS-230-221	
N72-21465*	c 15	NASA-CASE-GSC-10218-1	N72-22167*	c 08	US-PATENT-3,603,772				US-PATENT-CLASS-230-54	
		US-PATENT-APPL-SN-15022			NASA-CASE-NPO-11082				US-PATENT-3,612,391	
		US-PATENT-CLASS-141-23			US-PATENT-APPL-SN-868529		N72-22246*	c 11	NASA-CASE-XLA-07430	
		US-PATENT-CLASS-195-127			US-PATENT-CLASS-235-152				US-PATENT-APPL-SN-867841	
		US-PATENT-CLASS-222-135			US-PATENT-CLASS-340-146.1				US-PATENT-CLASS-73-147	
		US-PATENT-CLASS-222-309			US-PATENT-CLASS-340-348				US-PATENT-3,620,076	
		US-PATENT-CLASS-222-71			US-PATENT-3,609,327		N72-22247*	c 11	NASA-CASE-NPO-11013	
		US-PATENT-CLASS-23-253R	N72-22195*	c 09	NASA-CASE-MFS-14710				US-PATENT-APPL-SN-858695	
		US-PATENT-CLASS-23-259			US-PATENT-APPL-SN-852843				US-PATENT-CLASS-42-1F	
		US-PATENT-CLASS-73-425.6			US-PATENT-CLASS-74-105				US-PATENT-3,619,924	
		US-PATENT-3,615,241	N72-22196*	c 09	US-PATENT-3,614,899		N72-22437*	c 14	NASA-CASE-LAR-10496-1	
N72-21466*	c 15	NASA-CASE-NPO-10440			NASA-CASE-ERC-10075-2				US-PATENT-APPL-SN-12661	
		US-PATENT-APPL-SN-756834			US-PATENT-APPL-SN-775870				US-PATENT-CLASS-73-141A	
		US-PATENT-CLASS-204-130			US-PATENT-CLASS-321-14				US-PATENT-3,611,798	
		US-PATENT-CLASS-204-59			US-PATENT-CLASS-321-19		N72-22438*	c 14	NASA-CASE-ARC-10263-1	
		US-PATENT-3,616,338			US-PATENT-CLASS-321-2				US-PATENT-APPL-SN-882122	
N72-21489* #	c 15	NASA-CASE-XLA-10470			US-PATENT-CLASS-321-25				US-PATENT-CLASS-73-398C	
		US-PATENT-APPL-SN-219436			US-PATENT-CLASS-323-56				US-PATENT-3,620,083	
N72-21624*	c 21	NASA-CASE-HQN-10439			US-PATENT-CLASS-323-89C		N72-22439*	c 14	NASA-CASE-MFS-20890	
		US-PATENT-APPL-SN-889551			US-PATENT-3,614,587				US-PATENT-APPL-SN-103229	
		US-PATENT-CLASS-244-1SA	N72-22197*	c 09	NASA-CASE-LEW-10433-1				US-PATENT-CLASS-264-22	
		US-PATENT-3,637,170			US-PATENT-APPL-SN-849106				US-PATENT-CLASS-29-421	
N72-21701*	c 26	NASA-CASE-ERC-10119			US-PATENT-CLASS-307-262				US-PATENT-CLASS-310-11	
		US-PATENT-APPL-SN-825258			US-PATENT-CLASS-307-88MP				US-PATENT-CLASS-310-42	
		US-PATENT-CLASS-307-299			US-PATENT-3,612,895		N72-22440*	c 14	US-PATENT-3,626,218	
		US-PATENT-CLASS-317-234V	N72-22198*	c 09	NASA-CASE-MFS-13687-2				NASA-CASE-ARC-10154-1	
		US-PATENT-CLASS-317-235R			US-PATENT-APPL-SN-80369				US-PATENT-APPL-SN-793771	
		US-PATENT-CLASS-331-107			US-PATENT-CLASS-174-106R				US-PATENT-CLASS-73-67.2	
		US-PATENT-CLASS-332-31			US-PATENT-CLASS-174-117FF				US-PATENT-3,620,069	
		US-PATENT-3,614,557			US-PATENT-CLASS-174-36		N72-22441*	c 14	NASA-CASE-NPO-11002	
N72-21893* #	c 31	NASA-CASE-KSC-10622-1			US-PATENT-3,612,743				US-PATENT-APPL-SN-856328	
		US-PATENT-APPL-SN-149983	N72-22199*	c 09	NASA-CASE-ERC-10222				US-PATENT-CLASS-350-19	
N72-22041*	c 03	NASA-CASE-NPO-10591			US-PATENT-APPL-SN-832603				US-PATENT-CLASS-350-23	
		US-PATENT-APPL-SN-776185			US-PATENT-CLASS-29-590				US-PATENT-CLASS-350-26	
		US-PATENT-CLASS-29-572			US-PATENT-3,621,565				US-PATENT-CLASS-350-35	
		US-PATENT-3,616,528	N72-22200*	c 09	NASA-CASE-FRC-10036				US-PATENT-CLASS-350-36	
N72-22042*	c 03	NASA-CASE-NPO-10747			US-PATENT-APPL-SN-872602				US-PATENT-CLASS-350-49	
		US-PATENT-APPL-SN-6616			US-PATENT-CLASS-307-237				US-PATENT-CLASS-350-52	
		US-PATENT-CLASS-136-89			US-PATENT-CLASS-307-254				US-PATENT-3,612,645	
		US-PATENT-3,615,853			US-PATENT-CLASS-307-317		N72-22442*	c 14	NASA-CASE-MFS-21629	
N72-22092*	c 05	NASA-CASE-ARC-10275-1			US-PATENT-CLASS-328-1				US-PATENT-APPL-SN-612265	
		US-PATENT-APPL-SN-21644			US-PATENT-CLASS-328-151				US-PATENT-CLASS-324-61	
		US-PATENT-CLASS-2-2.1A			US-PATENT-CLASS-73-88.5				US-PATENT-CLASS-73-304	
		US-PATENT-3,636,564			US-PATENT-3,621,285				US-PATENT-3,639,835	
N72-22093*	c 05	NASA-CASE-MSC-12324-1	N72-22201*	c 09	NASA-CASE-LEW-10387				NASA-CASE-XGS-03736	
		US-PATENT-APPL-SN-63384			US-PATENT-APPL-SN-76899		N72-22443*	c 14	US-PATENT-APPL-SN-749320	
		US-PATENT-CLASS-128-295			US-PATENT-CLASS-307-223B				US-PATENT-CLASS-252-300	
		US-PATENT-CLASS-4-110			US-PATENT-CLASS-307-241				US-PATENT-CLASS-96-90PC	
		US-PATENT-CLASS-4-99			US-PATENT-CLASS-307-252J				US-PATENT-3,639,250	
		US-PATENT-3,602,923			US-PATENT-CLASS-307-284		N72-22444*	c 14	NASA-CASE-LAR-10523-1	
N72-22107*	c 06	NASA-CASE-NPO-10862			US-PATENT-CLASS-307-304				US-PATENT-APPL-SN-32665	
		US-PATENT-APPL-SN-810815			US-PATENT-CLASS-307-317				US-PATENT-CLASS-250-203	
		US-PATENT-CLASS-260-877			US-PATENT-CLASS-328-106				US-PATENT-CLASS-350-16	
		US-PATENT-3,639,510			US-PATENT-3,621,287				US-PATENT-CLASS-350-52	
N72-22127*	c 07	NASA-CASE-NPO-10303	N72-22202*	c 09	NASA-CASE-ARC-10136-1				US-PATENT-CLASS-356-248	
		US-PATENT-APPL-SN-848776			US-PATENT-APPL-SN-865106				US-PATENT-3,647,276	
		US-PATENT-CLASS-343-771			US-PATENT-CLASS-128-2.1A		N72-22445*	c 14	NASA-CASE-LAR-10184	
		US-PATENT-CLASS-343-797			US-PATENT-CLASS-128-2R				US-PATENT-APPL-SN-16808	
		US-PATENT-CLASS-343-853			US-PATENT-CLASS-307-231				US-PATENT-CLASS-33-174S	
		US-PATENT-CLASS-343-912			US-PATENT-CLASS-307-247				US-PATENT-CLASS-350-86	
		US-PATENT-3,623,114			US-PATENT-CLASS-307-288				US-PATENT-3,620,595	
N72-22162*	c 08	NASA-CASE-NPO-11333								

N72-22482*	c 15	NASA-CASE-XLA-04897 US-PATENT-APPL-SN-880249 US-PATENT-CLASS-73-133 US-PATENT-3,613,457	N72-22772*	c 28	NASA-CASE-NPO-12072 US-PATENT-APPL-SN-82647 US-PATENT-CLASS-123-122AB US-PATENT-CLASS-137-81.5 US-PATENT-CLASS-261-145 US-PATENT-3,640,256	US-PATENT-CLASS-313-224 US-PATENT-CLASS-313-231 US-PATENT-CLASS-315-111 US-PATENT-CLASS-315-326 US-PATENT-CLASS-315-358 US-PATENT-CLASS-331-94.5 US-PATENT-3,617,804		
N72-22483*	c 15	NASA-CASE-XNP-09770-2 US-PATENT-APPL-SN-864039 US-PATENT-CLASS-209-349 US-PATENT-3,615,021	N72-22874*	c 31	NASA-CASE-NPO-10883 US-PATENT-APPL-SN-26573 US-PATENT-CLASS-136-89 US-PATENT-CLASS-312-257 US-PATENT-3,620,846	N72-25019*	c 03	NASA-CASE-NPO-10575 US-PATENT-APPL-SN-6615 US-PATENT-CLASS-156-50 US-PATENT-CLASS-156-510 US-PATENT-3,654,036
N72-22484*	c 15	NASA-CASE-LAR-10031 US-PATENT-APPL-SN-867851 US-PATENT-CLASS-62-55.5 US-PATENT-3,625,018	N72-23048*	c 03	NASA-CASE-NPO-11388 US-PATENT-APPL-SN-119282 US-PATENT-CLASS-310-2 US-PATENT-CLASS-321-2 US-PATENT-CLASS-322-2 US-PATENT-3,648,152	N72-25020*	c 03	NASA-CASE-GSC-11211-1 US-PATENT-APPL-SN-139528 US-PATENT-CLASS-235-92T US-PATENT-CLASS-307-141.8 US-PATENT-CLASS-320-48 US-PATENT-CLASS-324-29.5 US-PATENT-3,663,938
N72-22485*	c 15	NASA-CASE-MSC-13512-1 US-PATENT-APPL-SN-73932 US-PATENT-CLASS-74-501R US-PATENT-3,625,084	N72-23085*	c 05	NASA-CASE-LAR-10102-1 US-PATENT-APPL-SN-13266 US-PATENT-CLASS-224-25A US-PATENT-3,649,921	N72-25021*	c 03	NASA-CASE-NPO-11118 US-PATENT-APPL-SN-8650 US-PATENT-CLASS-214-90R US-PATENT-3,666,120
N72-22486*	c 15	NASA-CASE-KSC-10031 US-PATENT-APPL-SN-98773 US-PATENT-CLASS-220-5R US-PATENT-CLASS-317-101DH US-PATENT-CLASS-317-117 US-PATENT-CLASS-317-120 US-PATENT-3,639,809	N72-23171*	c 09	NASA-CASE-GSC-10221-1 US-PATENT-APPL-SN-779025 US-PATENT-CLASS-307-252N US-PATENT-CLASS-307-252R US-PATENT-CLASS-307-259 US-PATENT-CLASS-307-305 US-PATENT-3,621,294	N72-25119*	c 05	NASA-CASE-MSC-12397-1 US-PATENT-APPL-SN-785613 US-PATENT-CLASS-2-115 US-PATENT-CLASS-2-2.1 US-PATENT-3,660,851
N72-22487*	c 15	NASA-CASE-GSC-10303 US-PATENT-APPL-SN-802813 US-PATENT-CLASS-29-473.1 US-PATENT-3,619,896	N72-23172*	c 09	NASA-CASE-LAR-10320-1 US-PATENT-APPL-SN-18427 US-PATENT-CLASS-324-20R US-PATENT-3,649,907	N72-25120*	c 05	NASA-CASE-MSC-90153-2 US-PATENT-APPL-SN-844225 US-PATENT-CLASS-106-209 US-PATENT-CLASS-128-2.1 US-PATENT-CLASS-128-417 US-PATENT-CLASS-252-514 US-PATENT-CLASS-264-104 US-PATENT-3,665,064
N72-22488*	c 15	NASA-CASE-MSC-11849-1 US-PATENT-APPL-SN-6617 US-PATENT-CLASS-85-1 US-PATENT-3,623,394	N72-23173*	c 09	NASA-CASE-ERC-10267 US-PATENT-APPL-SN-41348 US-PATENT-CLASS-235-197 US-PATENT-CLASS-307-229 US-PATENT-CLASS-328-145 US-PATENT-3,648,043	N72-25121*	c 05	NASA-CASE-FRC-10029-2 US-PATENT-APPL-SN-78704 US-PATENT-CLASS-156-264 US-PATENT-CLASS-156-308 US-PATENT-CLASS-29-25.14 US-PATENT-CLASS-29-25.18 US-PATENT-CLASS-29-482 US-PATENT-CLASS-29-630A US-PATENT-3,662,441
N72-22489*	c 15	NASA-CASE-GSC-10518-1 US-PATENT-APPL-SN-789045 US-PATENT-CLASS-417-152 US-PATENT-CLASS-55-446 US-PATENT-CLASS-55-464 US-PATENT-3,623,828	N72-23215*	c 11	NASA-CASE-MFS-20710 US-PATENT-APPL-SN-114848 US-PATENT-CLASS-13-20 US-PATENT-CLASS-13-31 US-PATENT-3,647,924	N72-25122*	c 05	NASA-CASE-MSC-13609-1 US-PATENT-APPL-SN-94347 US-PATENT-CLASS-128-2N US-PATENT-3,662,744
N72-22490*	c 15	NASA-CASE-LEW-10856-1 US-PATENT-APPL-SN-3417 US-PATENT-CLASS-308-195 US-PATENT-3,620,585	N72-23457*	c 14	NASA-CASE-MSC-12297 US-PATENT-APPL-SN-792623 US-PATENT-CLASS-55-493 US-PATENT-CLASS-55-498 US-PATENT-CLASS-55-502 US-PATENT-CLASS-55-521 US-PATENT-3,650,095	N72-25146*	c 06	NASA-CASE-NPO-11322 US-PATENT-APPL-SN-87550 US-PATENT-CLASS-250-43.5R US-PATENT-CLASS-73-23.1 US-PATENT-3,666,942
N72-22491*	c 15	NASA-CASE-GSC-10913 US-PATENT-APPL-SN-889558 US-PATENT-CLASS-219-158 US-PATENT-CLASS-219-234 US-PATENT-CLASS-219-85 US-PATENT-CLASS-228-57 US-PATENT-CLASS-29-628 US-PATENT-3,621,194	N72-23497*	c 15	NASA-CASE-KSC-10242 US-PATENT-APPL-SN-73834 US-PATENT-CLASS-219-109 US-PATENT-CLASS-219-234 US-PATENT-CLASS-219-85 US-PATENT-CLASS-324-65R US-PATENT-3,621,193	N72-25147*	c 06	NASA-CASE-ARC-10325 US-PATENT-APPL-SN-63610 US-PATENT-CLASS-260-2.5FP US-PATENT-3,663,464
N72-22492*	c 15	NASA-CASE-MFS-20482 US-PATENT-APPL-SN-6610 US-PATENT-CLASS-29-472.9 US-PATENT-CLASS-29-473.1 US-PATENT-3,602,979	N72-23581*	c 18	NASA-CASE-GSC-10361-1 US-PATENT-APPL-SN-700040 US-PATENT-CLASS-106-84 US-PATENT-3,620,784	N72-25148*	c 06	NASA-CASE-MFS-13994-2 US-PATENT-APPL-SN-870689 US-PATENT-CLASS-260-348SC US-PATENT-3,660,434
N72-22520* #	c 16	NASA-CASE-LAR-10815-1 US-PATENT-APPL-SN-233587	N72-23695*	c 23	NASA-CASE-HQN-10541-3 US-PATENT-APPL-SN-822089 US-PATENT-CLASS-350-171 US-PATENT-3,606,522	N72-25149*	c 06	NASA-CASE-GSC-10565-1 US-PATENT-APPL-SN-822039 US-PATENT-CLASS-195-103.5R US-PATENT-CLASS-195-28N US-PATENT-CLASS-260-211.5 US-PATENT-3,660,240
N72-22530*	c 17	NASA-CASE-XLE-06461 US-PATENT-APPL-SN-853855 US-PATENT-CLASS-75-5B US-PATENT-3,623,861	N72-23809*	c 28	NASA-CASE-XNP-09461 US-PATENT-APPL-SN-670829 US-PATENT-CLASS-239-418 US-PATENT-CLASS-239-433 US-PATENT-CLASS-239-543 US-PATENT-3,650,474	N72-25150*	c 06	NASA-CASE-XLE-06774-2 US-PATENT-APPL-SN-5114 US-PATENT-CLASS-117-132 US-PATENT-CLASS-117-161 US-PATENT-CLASS-260-2.5 US-PATENT-CLASS-260-92.1 US-PATENT-3,666,741
N72-22535*	c 17	NASA-CASE-LEW-10874-1 US-PATENT-APPL-SN-68024 US-PATENT-CLASS-148-32.5 US-PATENT-CLASS-75-170 US-PATENT-3,620,718	N72-23810*	c 28	NASA-CASE-NPO-11458 US-PATENT-APPL-SN-36926 US-PATENT-CLASS-60-266 US-PATENT-CLASS-60-271 US-PATENT-3,648,461	N72-25151*	c 06	NASA-CASE-MFS-20979 US-PATENT-APPL-SN-100774 US-PATENT-CLASS-260-18S US-PATENT-CLASS-260-448.2D US-PATENT-CLASS-260-46.5E US-PATENT-CLASS-260-46.5G US-PATENT-CLASS-260-46.5P US-PATENT-3,666,718
N72-22566*	c 18	NASA-CASE-MFS-20011 US-PATENT-APPL-SN-813338 US-PATENT-CLASS-106-286 US-PATENT-CLASS-106-288B US-PATENT-CLASS-106-84 US-PATENT-3,620,791	N72-24037*	c 03	NASA-CASE-GSC-11514-1 US-PATENT-APPL-SN-820453 US-PATENT-CLASS-117-201 US-PATENT-CLASS-136-89 US-PATENT-3,653,970	N72-25152*	c 06	NASA-CASE-NPO-10863-2 US-PATENT-APPL-SN-145026 US-PATENT-CLASS-260-92.1 US-PATENT-3,663,521
N72-22567*	c 18	NASA-CASE-NPO-11091 US-PATENT-APPL-SN-860781 US-PATENT-CLASS-260-2.1E US-PATENT-3,629,161	N72-24477*	c 14	NASA-CASE-ARC-10138-1 US-PATENT-APPL-SN-774733 US-PATENT-CLASS-250-83.3H US-PATENT-CLASS-317-247 US-PATENT-CLASS-324-61R US-PATENT-CLASS-73-355R US-PATENT-3,657,644	N72-25170*	c 07	NASA-CASE-LAR-10513-1 US-PATENT-APPL-SN-64723 US-PATENT-CLASS-333-7 US-PATENT-CLASS-333-81R US-PATENT-CLASS-333-98P US-PATENT-CLASS-333-98R US-PATENT-CLASS-333-98S US-PATENT-3,649,935
N72-22619*	c 21	NASA-CASE-ARC-10179-1 US-PATENT-APPL-SN-835058 US-PATENT-CLASS-244-114 US-PATENT-CLASS-340-26 US-PATENT-3,624,598	N72-24522*	c 15	NASA-CASE-NPO-11036 US-PATENT-APPL-SN-41346 US-PATENT-CLASS-264-92 US-PATENT-3,658,974	N72-25171*	c 07	NASA-CASE-MFS-21042
N72-22673*	c 23	NASA-CASE-XER-07896-2 US-PATENT-APPL-SN-36819 US-PATENT-CLASS-350-310 US-PATENT-3,620,606	N72-24753*	c 25	NASA-CASE-XNP-04167-2 US-PATENT-APPL-SN-866442 US-PATENT-CLASS-313-186 US-PATENT-CLASS-313-212			
N72-22769*	c 28	NASA-CASE-ARC-10106-1 US-PATENT-APPL-SN-812998 US-PATENT-CLASS-244-3.22 US-PATENT-3,612,442						
N72-22770*	c 28	NASA-CASE-LEW-10770-1 US-PATENT-APPL-SN-880246 US-PATENT-CLASS-60-202 US-PATENT-3,613,370						
N72-22771*	c 28	NASA-CASE-LEW-10835-1 US-PATENT-APPL-SN-67815 US-PATENT-CLASS-60-202 US-PATENT-3,620,018						

		US-PATENT-APPL-SN-86417			US-PATENT-CLASS-321-18			US-PATENT-CLASS-250-209
		US-PATENT-CLASS-102-34.4			US-PATENT-CLASS-321-19			US-PATENT-CLASS-250-226
		US-PATENT-CLASS-325-114			US-PATENT-CLASS-321-2			US-PATENT-CLASS-250-83.3UV
		US-PATENT-CLASS-325-4			US-PATENT-CLASS-321-45ER			US-PATENT-CLASS-350-203
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-321-45R			US-PATENT-3,657,549
		US-PATENT-3,667,044			US-PATENT-3,663,940	N72-25410*	c 14	NASA-CASE-ERC-10292
N72-25172*	c 07	NASA-CASE-NPO-11358	N72-25253*	c 09	NASA-CASE-GSC-11126-1			US-PATENT-APPL-SN-45519
		US-PATENT-APPL-SN-116786			US-PATENT-APPL-SN-98640			US-PATENT-CLASS-350-160R
		US-PATENT-CLASS-179-15BV			US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-515
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-321-47			US-PATENT-CLASS-73-521
		US-PATENT-3,665,417			US-PATENT-CLASS-331-113A			US-PATENT-3,657,928
N72-25173*	c 07	NASA-CASE-ERC-10324	N72-25254*	c 09	US-PATENT-3,663,941	N72-25411*	c 14	NASA-CASE-MSC-15626-1
		US-PATENT-APPL-SN-54270			NASA-CASE-NPO-10760			US-PATENT-APPL-SN-94374
		US-PATENT-CLASS-178-69.5			US-PATENT-APPL-SN-129071			US-PATENT-CLASS-116-114AH
		US-PATENT-CLASS-325-141			US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-12
		US-PATENT-CLASS-325-302			US-PATENT-CLASS-321-45R			US-PATENT-CLASS-73-492
		US-PATENT-CLASS-325-325			US-PATENT-CLASS-331-113A			US-PATENT-3,656,352
		US-PATENT-CLASS-325-38			US-PATENT-3,663,944	N72-25412*	c 14	NASA-CASE-MFS-15063
		US-PATENT-CLASS-325-51	N72-25255*	c 09	NASA-CASE-LAR-10620-1			US-PATENT-APPL-SN-51477
		US-PATENT-CLASS-325-55			US-PATENT-APPL-SN-125979			US-PATENT-CLASS-178-DIG.8
		US-PATENT-CLASS-325-58			US-PATENT-CLASS-310-10			US-PATENT-CLASS-178-6.8
		US-PATENT-CLASS-325-64			US-PATENT-CLASS-310-15			US-PATENT-CLASS-340-227R
		US-PATENT-CLASS-340-167			US-PATENT-3,663,843			US-PATENT-3,659,043
N72-25174*	c 07	US-PATENT-3,665,313	N72-25256*	c 09	NASA-CASE-XLA-02609	N72-25413*	c 14	NASA-CASE-GSC-10879-1
		NASA-CASE-NPO-11264			US-PATENT-APPL-SN-41347			US-PATENT-APPL-SN-889420
		US-PATENT-APPL-SN-36531			US-PATENT-CLASS-333-79			US-PATENT-CLASS-195-127
		US-PATENT-CLASS-343-762			US-PATENT-CLASS-339-143R			US-PATENT-3,666,631
		US-PATENT-CLASS-343-777			US-PATENT-CLASS-339-147R	N72-25414*	c 14	NASA-CASE-NPO-11311
		US-PATENT-CLASS-343-779			US-PATENT-3,663,929			US-PATENT-APPL-SN-57252
		US-PATENT-CLASS-343-786	N72-25257*	c 09	NASA-CASE-MSC-12395			US-PATENT-CLASS-178-7.92
		US-PATENT-CLASS-343-853			US-PATENT-APPL-SN-134573			US-PATENT-CLASS-350-175FS
		US-PATENT-3,665,481			US-PATENT-CLASS-307-233			US-PATENT-3,663,753
N72-25206*	c 08	NASA-CASE-KSC-10397			US-PATENT-CLASS-324-186	N72-25428* #	c 14	NASA-CASE-HQN-10756-1
		US-PATENT-APPL-SN-25488			US-PATENT-CLASS-324-78D			US-PATENT-APPL-SN-236052
		US-PATENT-CLASS-235-154			US-PATENT-CLASS-328-136	N72-25447*	c 15	NASA-CASE-LEW-10489-1
		US-PATENT-CLASS-340-347DA			US-PATENT-CLASS-328-140			US-PATENT-APPL-SN-889682
		US-PATENT-3,648,275			US-PATENT-3,663,885			US-PATENT-CLASS-117-107
N72-25207*	c 08	NASA-CASE-NPO-11161	N72-25258*	c 09	NASA-CASE-LAR-10253-1			US-PATENT-CLASS-117-211
		US-PATENT-APPL-SN-889374			US-PATENT-APPL-SN-99175			US-PATENT-CLASS-117-217
		US-PATENT-CLASS-340-146.1			US-PATENT-CLASS-307-88.3			US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-330-4.5			US-PATENT-CLASS-117-93.16D
		US-PATENT-3,648,256			US-PATENT-3,663,886			US-PATENT-CLASS-29-599
N72-25208*	c 08	NASA-CASE-NPO-11338	N72-25259*	c 09	NASA-CASE-GSC-10695-1	N72-25448*	c 15	US-PATENT-3,649,356
		US-PATENT-APPL-SN-89212			US-PATENT-APPL-SN-889422			NASA-CASE-LEW-10450-1
		US-PATENT-CLASS-178-50			US-PATENT-CLASS-117-200			US-PATENT-APPL-SN-880271
		US-PATENT-CLASS-179-15BC			US-PATENT-CLASS-136-89			US-PATENT-CLASS-75-0.5BB
		US-PATENT-CLASS-179-15FD			US-PATENT-CLASS-29-198			US-PATENT-CLASS-75-206
		US-PATENT-CLASS-325-62			US-PATENT-3,664,874			US-PATENT-CLASS-75-213
		US-PATENT-CLASS-332-21	N72-25260*	c 09	NASA-CASE-NPO-11283			US-PATENT-3,649,242
		US-PATENT-3,659,053			US-PATENT-APPL-SN-118270	N72-25450*	c 15	NASA-CASE-NPO-11202
N72-25209*	c 08	NASA-CASE-NPO-11194			US-PATENT-CLASS-310-4			US-PATENT-APPL-SN-66004
		US-PATENT-APPL-SN-63532			US-PATENT-3,663,839			US-PATENT-CLASS-285-DIG.21
		US-PATENT-CLASS-343-12R	N72-25261*	c 09	NASA-CASE-ERC-10224			US-PATENT-CLASS-285-3
		US-PATENT-CLASS-343-14			US-PATENT-APPL-SN-868775			US-PATENT-CLASS-285-316
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-29-492			US-PATENT-CLASS-285-33
		US-PATENT-3,659,292			US-PATENT-CLASS-29-497			US-PATENT-CLASS-339-45M
N72-25210*	c 08	NASA-CASE-NPO-10636			US-PATENT-CLASS-29-498			US-PATENT-CLASS-339-91B
		US-PATENT-APPL-SN-77221			US-PATENT-CLASS-29-502			US-PATENT-3,656,781
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-29-589	N72-25451*	c 15	NASA-CASE-NPO-10606
		US-PATENT-CLASS-340-146.1AL			US-PATENT-CLASS-29-628			US-PATENT-APPL-SN-8636
		US-PATENT-3,662,337			US-PATENT-3,665,589			US-PATENT-CLASS-251-360
N72-25247*	c 09	NASA-CASE-LAR-10163-1	N72-25262*	c 09	NASA-CASE-NPO-11078			US-PATENT-3,658,290
		US-PATENT-APPL-SN-73310			US-PATENT-APPL-SN-82280	N72-25452*	c 15	NASA-CASE-LEW-10965-1
		US-PATENT-CLASS-343-708			US-PATENT-CLASS-307-103			US-PATENT-APPL-SN-876588
		US-PATENT-CLASS-343-771			US-PATENT-CLASS-307-83			US-PATENT-CLASS-117-124C
		US-PATENT-CLASS-343-873			US-PATENT-CLASS-323-48			US-PATENT-CLASS-117-152
		US-PATENT-3,653,052			US-PATENT-CLASS-323-82			US-PATENT-CLASS-117-16R
N72-25248*	c 09	NASA-CASE-NPO-11342			US-PATENT-3,663,828			US-PATENT-CLASS-117-37
		US-PATENT-APPL-SN-89209	N72-25284*	c 11	NASA-CASE-LAR-10507-1			US-PATENT-CLASS-117-47R
		US-PATENT-CLASS-340-172.5			US-PATENT-APPL-SN-874177			US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-324A			US-PATENT-CLASS-195-127			US-PATENT-CLASS-117-93.3
		US-PATENT-3,648,250			US-PATENT-3,649,462			US-PATENT-CLASS-204-157.18AG
N72-25249*	c 09	NASA-CASE-GSC-10656-1	N72-25287*	c 11	NASA-CASE-LAR-10546-1			US-PATENT-CLASS-204-49
		US-PATENT-APPL-SN-59969			US-PATENT-APPL-SN-32664			US-PATENT-CLASS-250-65F
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-287-54A			US-PATENT-CLASS-96-36.2
		US-PATENT-CLASS-323-DIG.1			US-PATENT-CLASS-52-648			US-PATENT-3,658,569
		US-PATENT-CLASS-323-17			US-PATENT-CLASS-52-655	N72-25453*	c 15	NASA-CASE-KSC-10513
		US-PATENT-CLASS-323-22T			US-PATENT-3,665,670			US-PATENT-APPL-SN-61535
		US-PATENT-3,621,372	N72-25288*	c 11	NASA-CASE-MFS-20434			US-PATENT-CLASS-187-1
N72-25250*	c 09	NASA-CASE-KSC-10565			US-PATENT-APPL-SN-55534			US-PATENT-CLASS-187-20
		US-PATENT-APPL-SN-98517			US-PATENT-CLASS-73-140			US-PATENT-CLASS-187-95
		US-PATENT-CLASS-315-135			US-PATENT-CLASS-73-161			US-PATENT-CLASS-254-190
		US-PATENT-CLASS-315-349			US-PATENT-3,665,758			US-PATENT-3,666,051
		US-PATENT-CLASS-330-2	N72-25292*	c 12	NASA-CASE-NPO-11556	N72-25454*	c 15	NASA-CASE-MSC-12233-1
		US-PATENT-CLASS-330-59			US-PATENT-APPL-SN-82648			US-PATENT-APPL-SN-73422
		US-PATENT-CLASS-340-332			US-PATENT-CLASS-210-188			US-PATENT-CLASS-52-169
		US-PATENT-3,659,148			US-PATENT-CLASS-310-11			US-PATENT-CLASS-52-173
N72-25251*	c 09	NASA-CASE-ERC-10048			US-PATENT-3,648,083			US-PATENT-CLASS-52-594
		US-PATENT-APPL-SN-10329	N72-25323*	c 13	NASA-CASE-NPO-11373			US-PATENT-3,665,669
		US-PATENT-CLASS-307-261			US-PATENT-APPL-SN-81095	N72-25455*	c 15	NASA-CASE-NPO-11095
		US-PATENT-CLASS-321-18			US-PATENT-CLASS-73-421.5R			US-PATENT-APPL-SN-19585
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-422GC			US-PATENT-CLASS-239-424
		US-PATENT-3,659,184			US-PATENT-CLASS-73-422TC			US-PATENT-CLASS-60-258
N72-25252*	c 09	NASA-CASE-ERC-10268			US-PATENT-3,662,604			US-PATENT-CLASS-60-39.74A
		US-PATENT-APPL-SN-39342	N72-25409*	c 14	NASA-CASE-ERC-10174			US-PATENT-3,662,547
		US-PATENT-CLASS-321-11			US-PATENT-APPL-SN-39344	N72-25456*	c 15	NASA-CASE-NPO-11222

		US-PATENT-APPL-SN-59893			US-PATENT-CLASS-136-202			US-PATENT-APPL-SN-59968
		US-PATENT-CLASS-310-68			US-PATENT-3,666,566			US-PATENT-CLASS-248-188.4
		US-PATENT-CLASS-310-80			NASA-CASE-NPO-10244			US-PATENT-3,669,393
		US-PATENT-CLASS-310-83			US-PATENT-APPL-SN-43327		N72-27485*	NASA-CASE-XLA-09843
		US-PATENT-3,660,704			US-PATENT-CLASS-308-2A			US-PATENT-APPL-SN-60876
N72-25457*	c 15	NASA-CASE-ERC-10325			US-PATENT-CLASS-73-136R			US-PATENT-CLASS-83-522
		US-PATENT-APPL-SN-43884			US-PATENT-3,664,185			US-PATENT-CLASS-83-562
		US-PATENT-CLASS-324-158D			NASA-CASE-GSC-10344-1			US-PATENT-CLASS-83-563
		US-PATENT-CLASS-324-158T			US-PATENT-APPL-SN-785078			US-PATENT-CLASS-83-588
		US-PATENT-3,665,307			US-PATENT-CLASS-136-89			US-PATENT-CLASS-83-8
N72-25485*	c 16	NASA-CASE-ERC-10283			US-PATENT-3,672,999			US-PATENT-3,668,956
		US-PATENT-APPL-SN-39185			NASA-CASE-LAR-10365-1		N72-27728*	NASA-CASE-ARC-10160-1
		US-PATENT-CLASS-331-94.5			US-PATENT-APPL-SN-3151			US-PATENT-APPL-SN-867842
		US-PATENT-CLASS-332-7.51			US-PATENT-CLASS-210-103			US-PATENT-CLASS-178-DIG.20
		US-PATENT-3,659,225			US-PATENT-CLASS-210-104			US-PATENT-CLASS-178-6.5
N72-25539*	c 18	NASA-CASE-LEW-10424-2.2			US-PATENT-CLASS-210-110			US-PATENT-CLASS-350-138
		US-PATENT-APPL-SN-15222			US-PATENT-CLASS-210-137			US-PATENT-3,670,097
		US-PATENT-CLASS-75-DIG.1			US-PATENT-3,670,890		N72-27784*	NASA-CASE-LAR-10836-1
		US-PATENT-CLASS-75-208			NASA-CASE-MSC-13648			US-PATENT-APPL-SN-138227
		US-PATENT-CLASS-75-211			US-PATENT-APPL-SN-87222			US-PATENT-CLASS-350-161
		US-PATENT-CLASS-75-226			US-PATENT-CLASS-128-DIG.4			US-PATENT-3,671,105
		US-PATENT-3,653,882			US-PATENT-CLASS-128-2.1E		N72-27959*	NASA-CASE-LAR-10800-1
N72-25540*	c 18	NASA-CASE-ERC-10364			US-PATENT-CLASS-128-417			US-PATENT-APPL-SN-154094
		US-PATENT-APPL-SN-55537			US-PATENT-3,669,110			US-PATENT-CLASS-73-35
		US-PATENT-CLASS-161-127			NASA-CASE-NPO-10768-2			US-PATENT-3,670,559
		US-PATENT-CLASS-161-68			US-PATENT-APPL-SN-770398		N72-28025*	NASA-CASE-NPO-10633
		US-PATENT-CLASS-161-7			US-PATENT-APPL-SN-99524			US-PATENT-CLASS-339-176MF
		US-PATENT-CLASS-52-DIG.10			US-PATENT-CLASS-260-535H			US-PATENT-CLASS-165-20
		US-PATENT-CLASS-52-80			US-PATENT-CLASS-260-77.5AP			US-PATENT-CLASS-165-3
		US-PATENT-3,663,347			US-PATENT-3,671,497			US-PATENT-CLASS-62-93
N72-25541*	c 18	NASA-CASE-ERC-10363			NASA-CASE-NPO-10767-2			US-PATENT-3,675,712
		US-PATENT-APPL-SN-57253			US-PATENT-APPL-SN-241061		N72-28225*	NASA-CASE-MFS-20757
		US-PATENT-CLASS-161-127			NASA-CASE-LEW-10330-1			US-PATENT-APPL-SN-136006
		US-PATENT-CLASS-161-68			US-PATENT-APPL-SN-110402			US-PATENT-CLASS-339-176MF
		US-PATENT-CLASS-161-7			US-PATENT-CLASS-338-198			US-PATENT-CLASS-339-218M
		US-PATENT-CLASS-52-DIG.10			US-PATENT-CLASS-336-220			US-PATENT-CLASS-339-75MP
		US-PATENT-CLASS-52-80			US-PATENT-CLASS-336-60			US-PATENT-CLASS-339-94M
		US-PATENT-3,663,346			US-PATENT-3,648,209			US-PATENT-3,670,290
N72-25595*	c 21	NASA-CASE-MSC-13397-1			NASA-CASE-KSC-10644		N72-28240*	NASA-CASE-ARC-10265-1
		US-PATENT-APPL-SN-59966			US-PATENT-APPL-SN-114849			US-PATENT-APPL-SN-64709
		US-PATENT-CLASS-244-1SA			US-PATENT-CLASS-307-118			US-PATENT-CLASS-324-41
		US-PATENT-CLASS-244-23A			US-PATENT-CLASS-307-92			US-PATENT-CLASS-340-258
		US-PATENT-3,662,973			US-PATENT-CLASS-304-240			US-PATENT-3,676,772
N72-25619*	c 23	NASA-CASE-NPO-10634			US-PATENT-3,673,424		N72-28241*	NASA-CASE-GSC-10786-1
		US-PATENT-APPL-SN-112999			NASA-CASE-NPO-10542			US-PATENT-APPL-SN-773072
		US-PATENT-CLASS-62-475			US-PATENT-APPL-SN-767741			US-PATENT-CLASS-330-29
		US-PATENT-CLASS-62-6			US-PATENT-CLASS-310-4			US-PATENT-3,533,006
		US-PATENT-CLASS-62-80			US-PATENT-3,673,440		N72-28436*	NASA-CASE-XLA-06683
		US-PATENT-CLASS-62-85			NASA-CASE-ERC-10015-2			US-PATENT-APPL-SN-10827
		US-PATENT-3,656,313			US-PATENT-APPL-SN-763744			US-PATENT-CLASS-33-1SA
N72-25679*	c 26	NASA-CASE-XER-07895			US-PATENT-APPL-SN-97343			US-PATENT-CLASS-33-75R
		US-PATENT-APPL-SN-651627			US-PATENT-CLASS-313-309			US-PATENT-3,675,332
		US-PATENT-CLASS-317-234J			US-PATENT-CLASS-313-336		N72-28437*	NASA-CASE-ERC-10081
		US-PATENT-CLASS-317-235A			US-PATENT-CLASS-313-351			US-PATENT-APPL-SN-877990
		US-PATENT-CLASS-317-235AJ			US-PATENT-CLASS-315-36			US-PATENT-CLASS-325-363
		US-PATENT-CLASS-317-235R			US-PATENT-3,671,798			US-PATENT-CLASS-343-100ME
		US-PATENT-CLASS-331-107G			NASA-CASE-MFS-20620			US-PATENT-CLASS-343-112D
		US-PATENT-3,667,010			US-PATENT-APPL-SN-154935			US-PATENT-CLASS-73-355
N72-25680*	c 26	NASA-CASE-ERC-10275			US-PATENT-CLASS-73-117.1			US-PATENT-3,665,467
		US-PATENT-APPL-SN-47061			US-PATENT-CLASS-73-432SD		N72-28438*	NASA-CASE-XLA-04980-2
		US-PATENT-CLASS-324-92			US-PATENT-3,670,564			US-PATENT-APPL-SN-577548
		US-PATENT-CLASS-324-96			NASA-CASE-NPO-11147			US-PATENT-APPL-SN-763040
		US-PATENT-CLASS-340-324R			US-PATENT-APPL-SN-63195			US-PATENT-CLASS-148-187
		US-PATENT-CLASS-350-150			US-PATENT-CLASS-324-79R			US-PATENT-3,549,435
		US-PATENT-CLASS-350-160R			US-PATENT-CLASS-328-189		N72-28495*	NASA-CASE-MFS-14405
		US-PATENT-3,667,039			US-PATENT-CLASS-331-44			US-PATENT-APPL-SN-73283
N72-25699*	c 27	NASA-CASE-NPO-12000			US-PATENT-3,670,241			US-PATENT-CLASS-214-1CM
		US-PATENT-APPL-SN-74861			NASA-CASE-NPO-11201			US-PATENT-CLASS-74-469
		US-PATENT-CLASS-149-19			US-PATENT-APPL-SN-77220			US-PATENT-3,631,737
		US-PATENT-CLASS-149-20			US-PATENT-CLASS-250-203R		N72-28496*	NASA-CASE-MFS-20433
		US-PATENT-CLASS-149-36			US-PATENT-CLASS-250-225			US-PATENT-APPL-SN-114847
		US-PATENT-CLASS-149-92			US-PATENT-CLASS-350-147			US-PATENT-CLASS-52-1
		US-PATENT-3,658,608			US-PATENT-CLASS-356-141			US-PATENT-CLASS-52-573
N72-25842*	c 31	NASA-CASE-MSC-12372-1			US-PATENT-CLASS-356-152			US-PATENT-3,675,376
		US-PATENT-APPL-SN-64391			US-PATENT-3,670,168		N72-28521*	NASA-CASE-NPO-11437
		US-PATENT-CLASS-95-12.5			NASA-CASE-XLE-05230			US-PATENT-APPL-SN-63144
		US-PATENT-3,662,661			US-PATENT-APPL-SN-877717			US-PATENT-CLASS-330-4
N72-25877*	c 32	NASA-CASE-LAR-10270-1			US-PATENT-CLASS-136-233			US-PATENT-CLASS-331-94
		US-PATENT-APPL-SN-60881			US-PATENT-3,671,329			US-PATENT-3,676,787
		US-PATENT-CLASS-73-100			NASA-CASE-MSC-12293-1		N72-28535*	NASA-CASE-XLE-06461-2
		US-PATENT-CLASS-73-15.6			US-PATENT-APPL-SN-59956			US-PATENT-APPL-SN-156778
		US-PATENT-3,665,751			US-PATENT-CLASS-250-205			US-PATENT-APPL-SN-853855
N72-25911*	c 33	NASA-CASE-LEW-10359			US-PATENT-CLASS-315-151			US-PATENT-CLASS-266-24
		US-PATENT-APPL-SN-47063			US-PATENT-CLASS-315-156			US-PATENT-3,675,910
		US-PATENT-CLASS-102-105			US-PATENT-CLASS-315-158		N72-28536*	NASA-CASE-XLE-03940-2
		US-PATENT-CLASS-60-200A			US-PATENT-CLASS-315-297			US-PATENT-APPL-SN-539255
		US-PATENT-CLASS-60-265			US-PATENT-CLASS-315-307			US-PATENT-APPL-SN-793657
		US-PATENT-CLASS-60-267			US-PATENT-CLASS-315-310			US-PATENT-CLASS-29-182.5
		US-PATENT-CLASS-62-467			US-PATENT-CLASS-315-311			US-PATENT-3,676,084
		US-PATENT-3,656,317			US-PATENT-3,670,202		N72-28761*	NASA-CASE-NPO-11775
N72-25913*	c 33	NASA-CASE-XMS-09690			NASA-CASE-MFS-20523			US-PATENT-APPL-SN-162230
		US-PATENT-APPL-SN-853641			US-PATENT-APPL-SN-77786			US-PATENT-CLASS-29-570
		US-PATENT-CLASS-73-15R			US-PATENT-CLASS-73-103			US-PATENT-CLASS-317-230
		US-PATENT-3,665,750			US-PATENT-CLASS-73-71.6			US-PATENT-CLASS-317-261
N72-26031*	c 03	NASA-CASE-NPO-10753			US-PATENT-3,670,563			US-PATENT-3,676,754
		US-PATENT-APPL-SN-844355			NASA-CASE-NPO-10721		N72-28762*	NASA-CASE-LAR-10294-1

		US-PATENT-APPL-SN-796685			US-PATENT-3,690,291			US-PATENT-CLASS-325-480
		US-PATENT-CLASS-106-39			NASA-CASE-MFS-20589			US-PATENT-3,700,812
		US-PATENT-CLASS-106-46	N72-32688*	c 25	US-PATENT-APPL-SN-103077	N72-12264*	c 11	NASA-CASE-LAR-10348-1
		US-PATENT-CLASS-117-212			US-PATENT-CLASS-313-231			US-PATENT-APPL-SN-70032
		US-PATENT-CLASS-117-217			US-PATENT-CLASS-315-111			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-29-25.42			US-PATENT-3,693,002			US-PATENT-3,695,101
		US-PATENT-3,649,353	N72-33072*	c 04	NASA-CASE-ERC-10338	N72-12265*	c 11	NASA-CASE-NPO-10890
N72-29172*	c 09	NASA-CASE-LAR-10511-1			US-PATENT-APPL-SN-50339			US-PATENT-APPL-SN-99903
		US-PATENT-APPL-SN-41345			US-PATENT-CLASS-23-109			US-PATENT-CLASS-137-559
		US-PATENT-CLASS-333-24R			US-PATENT-3,679,360			US-PATENT-CLASS-219-203
		US-PATENT-CLASS-333-98P	N72-33096*	c 05	NASA-CASE-MSC-13540-1			US-PATENT-CLASS-219-522
		US-PATENT-CLASS-333-98R			US-PATENT-APPL-SN-68023			US-PATENT-CLASS-52-171
		US-PATENT-3,676,809			US-PATENT-CLASS-99-80PS			US-PATENT-3,696,833
N72-29464*	c 14	NASA-CASE-ARC-10017-1			US-PATENT-3,692,533	N72-12444*	c 14	NASA-CASE-GSC-10903-1
		US-PATENT-APPL-SN-55536	N72-33146*	c 07	NASA-CASE-MSC-12259-2			US-PATENT-APPL-SN-114846
		US-PATENT-CLASS-250-41.9D			US-PATENT-APPL-SN-61895			US-PATENT-CLASS-250-41.9G
		US-PATENT-CLASS-250-71.5R			US-PATENT-APPL-SN-853763			US-PATENT-CLASS-250-41.9S
		US-PATENT-CLASS-313-356			US-PATENT-CLASS-325-373			US-PATENT-CLASS-73-421.5
		US-PATENT-3,676,674			US-PATENT-3,694,753			US-PATENT-3,700,893
N72-29488*	c 15	NASA-CASE-XLE-10326-2	N72-33172*	c 08	NASA-CASE-NPO-11630	N72-12445*	c 14	NASA-CASE-LAR-10728-1
		US-PATENT-APPL-SN-54540			US-PATENT-APPL-SN-143078			US-PATENT-APPL-SN-112998
		US-PATENT-APPL-SN-723465			US-PATENT-CLASS-179-15.55R			US-PATENT-CLASS-250-83.3H
		US-PATENT-CLASS-277-25			US-PATENT-3,694,581			US-PATENT-CLASS-250-83.3R
		US-PATENT-CLASS-277-27	N72-33204*	c 09	NASA-CASE-NPO-11129			US-PATENT-CLASS-250-83R
		US-PATENT-CLASS-277-74			US-PATENT-APPL-SN-883523			US-PATENT-3,700,897
		US-PATENT-3,675,935			US-PATENT-CLASS-307-262	N72-12446*	c 14	NASA-CASE-NPO-11239
N72-31140*	c 06	NASA-CASE-MSC-13335-1			US-PATENT-CLASS-307-295			US-PATENT-APPL-SN-89211
		US-PATENT-APPL-SN-55806			US-PATENT-CLASS-328-155			US-PATENT-CLASS-356-106
		US-PATENT-CLASS-55-16			US-PATENT-CLASS-328-24			US-PATENT-CLASS-356-114
		US-PATENT-CLASS-55-55			US-PATENT-3,621,406			US-PATENT-3,700,334
		US-PATENT-3,678,654	N72-33205*	c 09	NASA-CASE-GSC-10835-1	N72-12447*	c 14	NASA-CASE-NPO-11493
N72-31141*	c 06	NASA-CASE-ARC-10308-1			US-PATENT-APPL-SN-116778			US-PATENT-APPL-SN-151413
		US-PATENT-APPL-SN-134568			US-PATENT-CLASS-317-101A			US-PATENT-CLASS-136-224
		US-PATENT-CLASS-250-43.5R			US-PATENT-CLASS-317-235			US-PATENT-3,700,503
		US-PATENT-CLASS-356-51			US-PATENT-CLASS-317-235AJ	N72-12486*	c 15	NASA-CASE-KSC-10615
		US-PATENT-3,679,899			US-PATENT-3,694,700			US-PATENT-APPL-SN-103078
N72-31226*	c 08	NASA-CASE-NPO-11016	N72-33230*	c 10	NASA-CASE-GSC-11340-1			US-PATENT-CLASS-244-15B
		US-PATENT-APPL-SN-889584			US-PATENT-APPL-SN-107379			US-PATENT-CLASS-244-135
		US-PATENT-CLASS-235-150.1			US-PATENT-CLASS-330-12			US-PATENT-CLASS-62-45
		US-PATENT-CLASS-235-151.1			US-PATENT-CLASS-331-115			US-PATENT-CLASS-62-7
		US-PATENT-CLASS-235-92MT			US-PATENT-CLASS-331-116R	N72-12487*	c 15	US-PATENT-3,697,021
		US-PATENT-CLASS-323-19			US-PATENT-CLASS-333-80T			NASA-CASE-FRC-10019
		US-PATENT-CLASS-340-347AD			US-PATENT-3,693,105			US-PATENT-APPL-SN-880398
		US-PATENT-3,681,581	N72-33377*	c 14	US-PATENT-3,693,105			US-PATENT-CLASS-204-192
N72-31235*	c 09	NASA-CASE-ERC-10214			NASA-CASE-MFS-20760			US-PATENT-3,700,575
		US-PATENT-APPL-SN-863914			US-PATENT-APPL-SN-99174	N72-12488*	c 15	NASA-CASE-ARC-10345-1
		US-PATENT-CLASS-343-770			US-PATENT-CLASS-73-141AB			US-PATENT-APPL-SN-193671
		US-PATENT-CLASS-343-771			US-PATENT-CLASS-73-85			US-PATENT-CLASS-287-85R
		US-PATENT-CLASS-343-786			US-PATENT-3,693,418			US-PATENT-CLASS-308-2A
		US-PATENT-CLASS-343-797	N72-33476*	c 15	NASA-CASE-XGS-07805			US-PATENT-CLASS-74-5F
		US-PATENT-CLASS-343-853			US-PATENT-APPL-SN-104884			US-PATENT-3,700,291
		US-PATENT-3,680,142			US-PATENT-CLASS-308-10	N72-12489*	c 15	NASA-CASE-MSC-12357
N72-31273*	c 10	NASA-CASE-KSC-10647-1			US-PATENT-3,694,041			US-PATENT-APPL-SN-662763
		US-PATENT-APPL-SN-774691	N72-33477*	c 15	NASA-CASE-NPO-11340			US-PATENT-CLASS-264-102
		US-PATENT-CLASS-178-7.5E			US-PATENT-APPL-SN-147997			US-PATENT-CLASS-264-28
		US-PATENT-CLASS-315-22R			US-PATENT-CLASS-137-13			US-PATENT-CLASS-264-36
		US-PATENT-CLASS-315-30R			US-PATENT-CLASS-137-81.5			US-PATENT-CLASS-264-40
		US-PATENT-CLASS-330-27R			US-PATENT-CLASS-60-1			US-PATENT-3,697,630
		US-PATENT-3,678,191			US-PATENT-CLASS-60-36	N72-12492* #	c 15	NASA-CASE-XLA-08914
N72-31446*	c 14	NASA-CASE-ERC-10087-2			US-PATENT-3,693,346			US-PATENT-APPL-SN-810576
		US-PATENT-APPL-SN-738315	N72-33681*	c 24	NASA-CASE-LEW-10518-1	N72-12495* #	c 15	NASA-CASE-NPO-13086-1
		US-PATENT-APPL-SN-91642			US-PATENT-APPL-SN-863280			US-PATENT-APPL-SN-292477
		US-PATENT-CLASS-29-588			US-PATENT-CLASS-176-11	N72-12547*	c 17	NASA-CASE-LAR-10539-1
		US-PATENT-CLASS-317-234D			US-PATENT-3,694,313			US-PATENT-APPL-SN-136085
		US-PATENT-CLASS-317-234G	N72-33696*	c 25	NASA-CASE-GSC-11291-1			US-PATENT-CLASS-23-230R
		US-PATENT-CLASS-317-235M			US-PATENT-APPL-SN-102412			US-PATENT-3,701,631
		US-PATENT-CLASS-317-235R			US-PATENT-CLASS-250-83.6R	N72-12604*	c 18	NASA-CASE-MFS-20408
		US-PATENT-3,686,542			US-PATENT-3,694,655			US-PATENT-APPL-SN-71048
N72-31483*	c 15	NASA-CASE-LAR-10061-1	N72-12175*	c 08	NASA-CASE-NPO-11406			US-PATENT-CLASS-161-93
		US-PATENT-APPL-SN-104047			US-PATENT-APPL-SN-95183			US-PATENT-3,700,538
		US-PATENT-CLASS-251-331			US-PATENT-CLASS-235-152	N72-12884*	c 30	NASA-CASE-MSC-12391
		US-PATENT-CLASS-251-86			US-PATENT-CLASS-331-78			US-PATENT-APPL-SN-106465
		US-PATENT-3,680,830			US-PATENT-CLASS-340-146.1AL			US-PATENT-CLASS-244-155
N72-31637*	c 21	NASA-CASE-GSC-10945-1			US-PATENT-3,700,869	N72-13008*	c 02	US-PATENT-3,700,193
		US-PATENT-APPL-SN-75431	N72-12176*	c 08	NASA-CASE-KSC-10595			NASA-CASE-GSC-11077-1
		US-PATENT-CLASS-60-23			US-PATENT-APPL-SN-98772			US-PATENT-APPL-SN-127618
		US-PATENT-CLASS-60-26			US-PATENT-CLASS-235-155			US-PATENT-CLASS-244-32
		US-PATENT-3,678,685			US-PATENT-CLASS-340-347DD			US-PATENT-3,698,667
N72-32169*	c 07	NASA-CASE-NPO-11361			US-PATENT-3,697,733	N72-13114*	c 05	NASA-CASE-MSC-13604-1
		US-PATENT-APPL-SN-112988	N72-12177*	c 08	NASA-CASE-NPO-11371			US-PATENT-APPL-SN-78717
		US-PATENT-CLASS-343-781			US-PATENT-APPL-SN-117575			US-PATENT-CLASS-128-2N
		US-PATENT-CLASS-343-837			US-PATENT-CLASS-340-146.1AQ			US-PATENT-CLASS-273-1E
		US-PATENT-CLASS-343-840			US-PATENT-CLASS-340-146.1AV			US-PATENT-CLASS-35-22R
		US-PATENT-CLASS-343-915			US-PATENT-3,697,950			US-PATENT-3,698,385
		US-PATENT-3,680,144	N72-12211*	c 09	NASA-CASE-ERC-10412-1	N72-13128*	c 06	NASA-CASE-GSC-11214-1
N72-32452*	c 14	NASA-CASE-MFS-15162			US-PATENT-APPL-SN-72024			US-PATENT-APPL-SN-115134
		US-PATENT-APPL-SN-100639			US-PATENT-CLASS-343-11R			US-PATENT-CLASS-117-35R
		US-PATENT-CLASS-350-79			US-PATENT-CLASS-343-11VB			US-PATENT-3,702,775
		US-PATENT-CLASS-356-241			US-PATENT-CLASS-343-5DP	N72-13129*	c 06	NASA-CASE-XNP-08124-2
		US-PATENT-3,694,094			US-PATENT-3,696,418			US-PATENT-APPL-SN-97829
N72-32487*	c 15	NASA-CASE-LAR-10541-1	N72-12214* #	c 09	NASA-CASE-NPO-13091-1			US-PATENT-CLASS-75-66
		US-PATENT-APPL-SN-138229			US-PATENT-APPL-SN-290022			US-PATENT-3,702,762
		US-PATENT-CLASS-118-49.1	N72-12244*	c 10	NASA-CASE-NPO-11631	N72-13149*	c 07	NASA-CASE-NPO-11302-1
		US-PATENT-CLASS-204-298			US-PATENT-APPL-SN-123253			US-PATENT-APPL-SN-70967
		US-PATENT-CLASS-219-121P			US-PATENT-CLASS-179-1P			US-PATENT-CLASS-178-69.5
		US-PATENT-CLASS-219-273			US-PATENT-CLASS-325-473			US-PATENT-CLASS-235-150.53

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N73-19004*	c 02	US-PATENT-APPL-SN-87551	N73-20217*	c 08	US-PATENT-CLASS-340-163	N73-24513*	c 15	US-PATENT-CLASS-128-206F
		US-PATENT-CLASS-204-324			US-PATENT-CLASS-324-78E			
		US-PATENT-CLASS-204-325			US-PATENT-CLASS-329-676			
		US-PATENT-CLASS-204-328			NASA-CASE-NPO-11417			
		US-PATENT-3,708,419			US-PATENT-APPL-SN-120241			
N73-19234*	c 09	NASA-CASE-ERC-10439	N73-20231*	c 09	US-PATENT-CLASS-235-92R	N73-24569*	c 17	US-PATENT-CLASS-417-391
		US-PATENT-APPL-SN-54271			US-PATENT-CLASS-235-92T			US-PATENT-CLASS-60-25
		US-PATENT-CLASS-244-17.13			US-PATENT-CLASS-340-347AD			US-PATENT-3,732,040
		US-PATENT-CLASS-244-77D			US-PATENT-3,714,645			NASA-CASE-LEW-10920-1
		US-PATENT-CLASS-318-489			NASA-CASE-ARC-10264-1			US-PATENT-APPL-SN-106424
N73-19234*	c 09	US-PATENT-3,711,042	N73-20232*	c 09	US-PATENT-APPL-SN-80368	N73-24783*	c 28	US-PATENT-CLASS-204-192
		NASA-CASE-GSC-11013-1			US-PATENT-CLASS-328-167			US-PATENT-3,732,158
		US-PATENT-APPL-SN-200717			US-PATENT-CLASS-330-109			NASA-CASE-NPO-11880
		US-PATENT-CLASS-343-754			US-PATENT-CLASS-330-86			US-PATENT-APPL-SN-209535
		US-PATENT-CLASS-343-839			US-PATENT-3,714,588			US-PATENT-CLASS-313-DIG.8
N73-19235*	c 09	US-PATENT-CLASS-343-854	N73-20232*	c 09	NASA-CASE-MFS-21433	N73-24784*	c 28	US-PATENT-CLASS-313-231
		US-PATENT-CLASS-343-895			US-PATENT-APPL-SN-236281			US-PATENT-CLASS-313-63
		US-PATENT-3,713,163			US-PATENT-CLASS-307-230			US-PATENT-CLASS-60-202
		NASA-CASE-MFS-20407			US-PATENT-CLASS-307-304			US-PATENT-3,313,204
		US-PATENT-APPL-SN-116777			US-PATENT-CLASS-330-20			US-PATENT-3,728,861
N73-19419*	c 14	US-PATENT-CLASS-317-235AM	N73-20253*	c 10	US-PATENT-CLASS-330-30D	N73-25125*	c 05	NASA-CASE-NPO-11559
		US-PATENT-CLASS-317-235N			US-PATENT-CLASS-330-35			US-PATENT-APPL-SN-147996
		US-PATENT-CLASS-317-235R			US-PATENT-CLASS-330-40			US-PATENT-CLASS-102-49.7
		US-PATENT-CLASS-317-235T			US-PATENT-CLASS-330-80T			US-PATENT-CLASS-102-49.8
		US-PATENT-CLASS-317-235UA			US-PATENT-3,715,693			US-PATENT-CLASS-60-254
N73-19420*	c 14	US-PATENT-3,714,526	N73-20254*	c 10	NASA-CASE-LAR-10310-1	N73-25160*	c 07	US-PATENT-CLASS-60-256
		NASA-CASE-LAR-10226-1			US-PATENT-APPL-SN-147103			US-PATENT-3,729,935
		US-PATENT-APPL-SN-98774			US-PATENT-APPL-SN-147103			NASA-CASE-MFS-20332-2
		US-PATENT-CLASS-250-217R			US-PATENT-CLASS-235-197			US-PATENT-APPL-SN-195061
		US-PATENT-CLASS-95-11.5R			US-PATENT-3,714,405			US-PATENT-APPL-SN-869260
N73-19420*	c 14	US-PATENT-CLASS-95-11R	N73-20267*	c 11	NASA-CASE-NPO-11868	N73-25161*	c 07	US-PATENT-CLASS-128-142.5
		US-PATENT-3,712,195			US-PATENT-APPL-SN-192101			US-PATENT-CLASS-137-538
		NASA-CASE-MFS-20774			US-PATENT-CLASS-307-221R			US-PATENT-CLASS-2-2.1A
		US-PATENT-APPL-SN-161028			US-PATENT-CLASS-328-167			US-PATENT-3,720,208
		US-PATENT-CLASS-73-84			US-PATENT-CLASS-328-37			NASA-CASE-ARC-10097-2
N73-19421*	c 14	US-PATENT-3,712,121	N73-20267*	c 11	US-PATENT-CLASS-328-61	N73-25161*	c 07	US-PATENT-APPL-SN-115083
		NASA-CASE-MFS-20242			US-PATENT-3,718,863			US-PATENT-APPL-SN-768662
		US-PATENT-APPL-SN-213004			NASA-CASE-MFS-21362			US-PATENT-CLASS-325-113
		US-PATENT-CLASS-73-71.6			US-PATENT-APPL-SN-211411			US-PATENT-CLASS-325-139
		US-PATENT-CLASS-73-432SD			US-PATENT-CLASS-73-432SD			US-PATENT-CLASS-325-45
N73-19457*	c 15	US-PATENT-3,712,120	N73-20474*	c 14	US-PATENT-3,714,833	N73-25161*	c 07	US-PATENT-CLASS-325-61
		NASA-CASE-MFS-20698-2			NASA-CASE-ERC-10350			US-PATENT-CLASS-340-207
		US-PATENT-APPL-SN-136086			US-PATENT-APPL-SN-55535			US-PATENT-CLASS-340-258R
		US-PATENT-APPL-SN-3418			US-PATENT-CLASS-340-27R			US-PATENT-3,719,891
		US-PATENT-CLASS-423-446			US-PATENT-3,714,624			NASA-CASE-NPO-11707
N73-19458*	c 15	US-PATENT-CLASS-423-625	N73-20475*	c 14	US-PATENT-CLASS-250-231	N73-25206*	c 08	US-PATENT-APPL-SN-196399
		US-PATENT-3,714,332			US-PATENT-CLASS-250-83.3H			US-PATENT-CLASS-343-6.5R
		NASA-CASE-LAR-10195-1			US-PATENT-CLASS-250-231			US-PATENT-CLASS-343-6.8R
		US-PATENT-APPL-SN-201782			US-PATENT-3,714,432			US-PATENT-3,729,736
		US-PATENT-CLASS-259-4			US-PATENT-CLASS-73-432			NASA-CASE-NPO-11497
N73-19630* #	c 21	US-PATENT-3,712,591	N73-20476*	c 14	NASA-CASE-MFS-20673	N73-25206*	c 08	US-PATENT-APPL-SN-155565
		NASA-CASE-GSC-11188-2			US-PATENT-APPL-SN-94049			US-PATENT-CLASS-235-10.2
		US-PATENT-APPL-SN-244440			US-PATENT-CLASS-73-90			US-PATENT-CLASS-235-151.27
		NASA-CASE-LEW-11187-1			US-PATENT-CLASS-73-91			US-PATENT-CLASS-235-92CV
		US-PATENT-APPL-SN-147922			US-PATENT-3,714,821			US-PATENT-CLASS-235-92DN
N73-19793*	c 28	US-PATENT-CLASS-60-39.28R	N73-20477*	c 14	US-PATENT-3,714,821	N73-25240*	c 10	US-PATENT-CLASS-235-92EA
		US-PATENT-3,713,290			NASA-CASE-ARC-10443-1			US-PATENT-CLASS-235-92EV
		NASA-CASE-GSC-10814-1			US-PATENT-APPL-SN-128419			US-PATENT-CLASS-235-92R
		US-PATENT-APPL-SN-41404			US-PATENT-CLASS-250-83.3R			US-PATENT-3,729,129
		US-PATENT-CLASS-244-1SA			US-PATENT-CLASS-250-83R			NASA-CASE-MSC-12428-1
N73-20039*	c 03	US-PATENT-CLASS-244-1SS	N73-20478*	c 14	US-PATENT-3,715,590	N73-25240*	c 10	US-PATENT-APPL-SN-170681
		US-PATENT-3,715,092			NASA-CASE-NPO-10985			US-PATENT-CLASS-179-1SA
		NASA-CASE-NPO-11771			US-PATENT-APPL-SN-74759			US-PATENT-CLASS-235-151.31
		US-PATENT-APPL-SN-200762			US-PATENT-CLASS-324-30R			US-PATENT-CLASS-324-77R
		US-PATENT-CLASS-244-1.55			US-PATENT-CLASS-324-65P			US-PATENT-CLASS-324-78J
N73-20040*	c 03	US-PATENT-CLASS-250-212	N73-20514*	c 15	US-PATENT-3,712,132	N73-25241*	c 10	US-PATENT-3,732,405
		US-PATENT-CLASS-250-234			NASA-CASE-NPO-11213			NASA-CASE-GSC-11239-1
		US-PATENT-CLASS-60-26			US-PATENT-APPL-SN-78703			US-PATENT-APPL-SN-180683
		US-PATENT-3,715,600			US-PATENT-CLASS-195-127			US-PATENT-CLASS-325-363
		NASA-CASE-LAR-10076-1			US-PATENT-3,713,987			US-PATENT-CLASS-325-67
N73-20137*	c 05	NASA-CASE-LAR-10076-1	N73-20740*	c 32	NASA-CASE-LAR-10765-1	N73-25243*	c 10	US-PATENT-3,737,781
		US-PATENT-APPL-SN-84290			US-PATENT-APPL-SN-138230			NASA-CASE-MFS-21919-1
		US-PATENT-CLASS-165-46			US-PATENT-CLASS-356-32			US-PATENT-APPL-SN-193456
		US-PATENT-CLASS-312-1			US-PATENT-CLASS-73-88A			US-PATENT-CLASS-317-100
		US-PATENT-CLASS-62-259			US-PATENT-3,715,915			US-PATENT-CLASS-317-1010H
N73-20174*	c 07	US-PATENT-3,713,480	N73-20741*	c 23	NASA-CASE-ARC-10194-1	N73-25262*	c 12	US-PATENT-3,735,206
		NASA-CASE-GSC-10087-4			US-PATENT-APPL-SN-107659			NASA-CASE-LAR-10578-1
		US-PATENT-APPL-SN-47440			US-PATENT-CLASS-350-202			US-PATENT-APPL-SN-233098
		US-PATENT-APPL-SN-701679			US-PATENT-3,715,152			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-325-12			NASA-CASE-NPO-10166-1			US-PATENT-3,731,528
N73-20174*	c 07	US-PATENT-CLASS-325-17	N73-22076* #	c 07	US-PATENT-APPL-SN-192803	N73-25460*	c 14	NASA-CASE-MFS-20916
		US-PATENT-CLASS-325-4			NASA-CASE-NPO-10893			US-PATENT-APPL-SN-212165
		US-PATENT-CLASS-325-5			US-PATENT-APPL-SN-845584			US-PATENT-CLASS-73-189
		US-PATENT-CLASS-325-63			US-PATENT-CLASS-260-94.8			US-PATENT-3,731,531
		US-PATENT-CLASS-325-7			US-PATENT-3,634,383			NASA-CASE-KSC-10108
N73-20175*	c 07	US-PATENT-CLASS-325-8	N73-24176*	c 07	NASA-CASE-NPO-11751	N73-25461*	c 14	US-PATENT-APPL-SN-73922
		US-PATENT-CLASS-325-9			US-PATENT-APPL-SN-192141			US-PATENT-CLASS-343-14
		US-PATENT-CLASS-343-179			US-PATENT-CLASS-343-DIG.2			US-PATENT-CLASS-343-17.5
		US-PATENT-3,715,663			US-PATENT-CLASS-343-915			US-PATENT-CLASS-343-6.8R
		NASA-CASE-KSC-10698			US-PATENT-3,729,743			US-PATENT-3,732,567
N73-20175*	c 07	US-PATENT-APPL-SN-213949	N73-24472*	c 14	NASA-CASE-LEW-11072-1	N73-25462*	c 14	NASA-CASE-NPO-11686
		US-PATENT-CLASS-324-72			US-PATENT-APPL-SN-104885			US-PATENT-APPL-SN-212900
		US-PATENT-CLASS-73-170R			US-PATENT-CLASS-136-225			US-PATENT-CLASS-250-203R
		US-PATENT-3,715,660			US-PATENT-3,729,343			US-PATENT-CLASS-250-214
		NASA-CASE-KSC-10521			NASA-CASE-MFS-20418			US-PATENT-CLASS-250-214
N73-20176*	c 07	US-PATENT-APPL-SN-212921	N73-24473*	c 14	US-PATENT-APPL-SN-162101	N73-25462*	c 14	US-PATENT-CLASS-250-83.3P
		US-PATENT-CLASS-340-146.1C						
		US-PATENT-CLASS-340-147R						

		US-PATENT-CLASS-356-152 US-PATENT-3,723,745	N73-25463*	c 14	NASA-CASE-ARC-10278-1 US-PATENT-APPL-SN-154933 US-PATENT-CLASS-356-110 US-PATENT-3,729,260				US-PATENT-3,737,231	N73-26958*	c 33	NASA-CASE-NPO-11821-1 US-PATENT-APPL-SN-236285 US-PATENT-CLASS-235-152 US-PATENT-CLASS-235-164 US-PATENT-CLASS-328-167 US-PATENT-3,732,409			US-PATENT-3,733,424																																																																																																																				
N73-25512*	c 15	NASA-CASE-LAR-10129-1 US-PATENT-APPL-SN-99201 US-PATENT-CLASS-182-5 US-PATENT-CLASS-188-65.1 US-PATENT-CLASS-24-134R US-PATENT-CLASS-254-156 US-PATENT-3,729,068	N73-25513*	c 15	NASA-CASE-GSC-11205-1 US-PATENT-APPL-SN-107376 US-PATENT-CLASS-188-266 US-PATENT-CLASS-244-15A US-PATENT-3,737,118	N73-25760*	c 25	NASA-CASE-LEW-11180-1 US-PATENT-APPL-SN-175852 US-PATENT-CLASS-313-161 US-PATENT-CLASS-313-231 US-PATENT-CLASS-60-202 US-PATENT-3,735,591	N73-25952*	c 33	NASA-CASE-LEW-10359-2 US-PATENT-APPL-SN-150215 US-PATENT-APPL-SN-47063 US-PATENT-CLASS-102-105 US-PATENT-CLASS-244-117A US-PATENT-CLASS-60-200A US-PATENT-CLASS-60-265 US-PATENT-CLASS-60-267 US-PATENT-CLASS-62-467 US-PATENT-3,720,075	N73-26004*	c 02	NASA-CASE-LAR-10682-1 US-PATENT-APPL-SN-127915 US-PATENT-CLASS-244-75A US-PATENT-CLASS-244-76C US-PATENT-CLASS-244-77F US-PATENT-CLASS-244-77G US-PATENT-3,734,432	N73-26005*	c 02	NASA-CASE-ARC-10470-1 US-PATENT-APPL-SN-206279 US-PATENT-CLASS-244-13 US-PATENT-CLASS-244-46 US-PATENT-CLASS-244-55 US-PATENT-3,737,121	N73-26006*	c 02	NASA-CASE-MSC-12393-1 US-PATENT-APPL-SN-203405 US-PATENT-CLASS-114-122 US-PATENT-CLASS-9-11A US-PATENT-CLASS-9-2A US-PATENT-CLASS-9-3 US-PATENT-3,736,607	N73-26071*	c 05	NASA-CASE-ARC-10599-1 US-PATENT-APPL-SN-247481 US-PATENT-CLASS-165-46 US-PATENT-CLASS-2-2.1 US-PATENT-CLASS-62-176 US-PATENT-CLASS-62-207 US-PATENT-CLASS-62-209 US-PATENT-CLASS-62-259 US-PATENT-CLASS-62-89 US-PATENT-3,736,764	N73-26072*	c 05	NASA-CASE-ARC-10329-1 US-PATENT-APPL-SN-159857 US-PATENT-CLASS-128-2.1R US-PATENT-CLASS-351-23 US-PATENT-CLASS-351-30 US-PATENT-CLASS-351-36 US-PATENT-3,737,217	N73-26100*	c 06	NASA-CASE-GSC-11358-1 US-PATENT-APPL-SN-226551 US-PATENT-CLASS-260-46.5R US-PATENT-3,733,350	N73-26117*	c 07	NASA-CASE-KSC-10392 US-PATENT-APPL-SN-181024 US-PATENT-CLASS-343-880 US-PATENT-CLASS-343-883 US-PATENT-CLASS-343-889 US-PATENT-CLASS-343-895 US-PATENT-3,737,912	N73-26118*	c 07	NASA-CASE-NPO-11548 US-PATENT-APPL-SN-151411 US-PATENT-CLASS-179-15A US-PATENT-CLASS-179-15BM US-PATENT-CLASS-325-40 US-PATENT-CLASS-343-204 US-PATENT-3,737,776	N73-26119*	c 07	NASA-CASE-NPO-11426 US-PATENT-APPL-SN-89210 US-PATENT-CLASS-250-199 US-PATENT-CLASS-331-94.5 US-PATENT-CLASS-332-7.51 US-PATENT-CLASS-356-4 US-PATENT-CLASS-356-5	N73-26175*	c 08	NASA-CASE-NPO-11821-1 US-PATENT-APPL-SN-236285 US-PATENT-CLASS-235-152 US-PATENT-CLASS-235-164 US-PATENT-CLASS-328-167 US-PATENT-3,732,409	N73-26176*	c 08	NASA-CASE-NPO-11456 US-PATENT-APPL-SN-153543 US-PATENT-CLASS-340-172.5 US-PATENT-3,740,725	N73-26195*	c 09	NASA-CASE-GSC-10990-1 US-PATENT-APPL-SN-93329 US-PATENT-CLASS-333-73R US-PATENT-CLASS-333-73S US-PATENT-CLASS-333-82A US-PATENT-CLASS-333-84M US-PATENT-3,737,815	N73-26228*	c 10	NASA-CASE-ERC-10403-1 US-PATENT-APPL-SN-253405 US-PATENT-CLASS-317-DIG.6 US-PATENT-CLASS-321-11 US-PATENT-CLASS-321-45C US-PATENT-3,737,757	N73-26229*	c 10	NASA-CASE-NPO-11569 US-PATENT-APPL-SN-199957 US-PATENT-CLASS-307-220 US-PATENT-CLASS-307-233 US-PATENT-3,737,676	N73-26230*	c 10	NASA-CASE-MSC-13907-1 US-PATENT-APPL-SN-254177 US-PATENT-CLASS-235-186 US-PATENT-CLASS-235-194 US-PATENT-CLASS-235-197 US-PATENT-3,737,639	N73-26238*	c 11	NASA-CASE-NPO-11366 US-PATENT-APPL-SN-144139 US-PATENT-CLASS-180-4.1 US-PATENT-CLASS-180-6.5 US-PATENT-CLASS-180-7R US-PATENT-CLASS-180-8A US-PATENT-CLASS-180-9.2R US-PATENT-CLASS-180-9.5 US-PATENT-CLASS-305-35EB US-PATENT-CLASS-305-39 US-PATENT-3,730,287	N73-26430*	c 14	NASA-CASE-NPO-11304 US-PATENT-APPL-SN-101214 US-PATENT-CLASS-219-499 US-PATENT-CLASS-219-50 US-PATENT-3,733,463	N73-26431*	c 14	NASA-CASE-MSC-12363-1 US-PATENT-APPL-SN-125236 US-PATENT-CLASS-95-1.1 US-PATENT-3,736,849	N73-26432*	c 14	NASA-CASE-ERC-10276 US-PATENT-APPL-SN-24155 US-PATENT-CLASS-250-209 US-PATENT-CLASS-340-15.SGC US-PATENT-CLASS-343-100ME US-PATENT-3,737,905	N73-26472*	c 15	NASA-CASE-KSC-10639 US-PATENT-APPL-SN-181023 US-PATENT-CLASS-137-397 US-PATENT-CLASS-137-582 US-PATENT-3,736,956	N73-26572*	c 18	NASA-CASE-ARC-10304-1 US-PATENT-APPL-SN-140946 US-PATENT-CLASS-252-8.1 US-PATENT-3,730,891	N73-26751*	c 26	NASA-CASE-MFS-20675 US-PATENT-APPL-SN-200085 US-PATENT-CLASS-250-219TH US-PATENT-CLASS-356-108 US-PATENT-CLASS-356-161 US-PATENT-CLASS-356-202 US-PATENT-3,737,237	N73-26752*	c 26	NASA-CASE-LEW-11726-1 US-PATENT-APPL-SN-280031 US-PATENT-CLASS-156-18 US-PATENT-CLASS-174-DIG.6 US-PATENT-CLASS-29-599 US-PATENT-CLASS-336-DIG.1 US-PATENT-CLASS-336-200 US-PATENT-3,737,824	N73-26876*	c 31	NASA-CASE-MFS-20863 US-PATENT-APPL-SN-159966 US-PATENT-CLASS-244-1SD US-PATENT-CLASS-244-137P US-PATENT-3,737,117	N73-26910*	c 32	NASA-CASE-LAR-10756-1 US-PATENT-APPL-SN-160859 US-PATENT-CLASS-235-92MT US-PATENT-CLASS-73-67.3 US-PATENT-CLASS-73-88.5R US-PATENT-CLASS-73-91	N73-27052*	c 04	NASA-CASE-GSC-11092-2 US-PATENT-APPL-SN-139250 US-PATENT-APPL-SN-60950 US-PATENT-CLASS-103.5R US-PATENT-3,745,090	N73-27062*	c 05	NASA-CASE-LEW-11669-1 US-PATENT-APPL-SN-198885 US-PATENT-CLASS-128-2 US-PATENT-CLASS-128-24A US-PATENT-CLASS-128-305 US-PATENT-CLASS-32-28 US-PATENT-CLASS-32-58 US-PATENT-3,736,938	N73-27086*	c 06	NASA-CASE-GSC-10225-1 US-PATENT-APPL-SN-710621 US-PATENT-CLASS-195-66R US-PATENT-3,745,089	N73-27150* #	c 09	NASA-CASE-ERC-10224-2 US-PATENT-APPL-SN-221833 US-PATENT-APPL-SN-868775 US-PATENT-CLASS-29-580 US-PATENT-CLASS-317-234G US-PATENT-CLASS-317-234L US-PATENT-CLASS-317-234M US-PATENT-CLASS-317-234N US-PATENT-CLASS-317-234R US-PATENT-3,742,316	N73-27171*	c 10	NASA-CASE-NPO-11941-1 US-PATENT-APPL-SN-241614 US-PATENT-CLASS-330-70CR US-PATENT-CLASS-331-17 US-PATENT-CLASS-331-25 US-PATENT-3,740,671	N73-27376* #	c 14	NASA-CASE-HQN-10037-1 US-PATENT-APPL-SN-235957 US-PATENT-CLASS-73-28 US-PATENT-3,741,001	N73-27377*	c 14	NASA-CASE-MFS-21046-1 US-PATENT-APPL-SN-156725 US-PATENT-CLASS-272-73 US-PATENT-CLASS-35-12C US-PATENT-3,744,794	N73-27378*	c 14	NASA-CASE-KSC-10626 US-PATENT-APPL-SN-180963 US-PATENT-CLASS-222-414 US-PATENT-CLASS-244-1SS US-PATENT-CLASS-244-135 US-PATENT-3,744,738	N73-27379*	c 14	NASA-CASE-FRC-10060-1 US-PATENT-APPL-SN-189290 US-PATENT-CLASS-179-175.1A US-PATENT-CLASS-340-5C US-PATENT-CLASS-73-1DV US-PATENT-3,744,294	N73-27405*	c 15	NASA-CASE-MFS-20855 US-PATENT-APPL-SN-127647 US-PATENT-CLASS-219-348 US-PATENT-CLASS-53-112A US-PATENT-CLASS-53-22A US-PATENT-3,745,739	N73-27406*	c 15	NASA-CASE-NPO-11377 US-PATENT-APPL-SN-187262 US-PATENT-CLASS-137-1 US-PATENT-CLASS-137-154 US-PATENT-CLASS-137-604 US-PATENT-3,744,510	N73-27446*	c 17	NASA-CASE-LAR-10953-1 US-PATENT-APPL-SN-163152 US-PATENT-CLASS-23-230R US-PATENT-3,744,972	N73-27699*	c 28	NASA-CASE-XLE-10453-2 US-PATENT-APPL-SN-180473 US-PATENT-APPL-SN-758540 US-PATENT-CLASS-313-217 US-PATENT-CLASS-313-218 US-PATENT-CLASS-313-230 US-PATENT-CLASS-313-355 US-PATENT-CLASS-313-63 US-PATENT-CLASS-60-202 US-PATENT-3,744,247	N73-27796*	c 33	NASA-CASE-LAR-10439-1 US-PATENT-APPL-SN-182033 US-PATENT-CLASS-356-72 US-PATENT-CLASS-73-339 US-PATENT-CLASS-73-432R US-PATENT-CLASS-73-86 US-PATENT-3,745,816	N73-27941*	c 05	NASA-CASE-MFS-21109-1 US-PATENT-APPL-SN-202769 US-PATENT-CLASS-128-2.05R

N73-27980*	c 06	US-PATENT-CLASS-128-2.06R	N73-28573*	c 17	US-PATENT-CLASS-317-158	N73-30390*	c 14	US-PATENT-APPL-SN-11220
		US-PATENT-CLASS-272-73			US-PATENT-3,244,943			US-PATENT-APPL-SN-51317
		US-PATENT-CLASS-73-379			NASA-CASE-XNP-08876			US-PATENT-CLASS-250-105
		US-PATENT-3,744,480			US-PATENT-APPL-SN-527331			US-PATENT-CLASS-250-65R
		NASA-CASE-LEW-11325-1			US-PATENT-CLASS-75-66			US-PATENT-3,749,911
		US-PATENT-APPL-SN-184960			US-PATENT-3,419,384			NASA-CASE-XGS-07752
		US-PATENT-CLASS-117-161P			NASA-CASE-XNP-01185			US-PATENT-APPL-SN-533659
		US-PATENT-CLASS-117-161UN			US-PATENT-APPL-SN-155595			US-PATENT-CLASS-73-4
		US-PATENT-CLASS-117-228			US-PATENT-CLASS-317-158			US-PATENT-3,395,565
		US-PATENT-CLASS-161-214			US-PATENT-3,198,994			NASA-CASE-XLA-05087
N73-28012*	c 07	US-PATENT-CLASS-161-227	N73-28710*	c 26	NASA-CASE-MFS-21010-1	N73-30391*	c 14	US-PATENT-APPL-SN-459407
		US-PATENT-CLASS-260-30.2			US-PATENT-APPL-SN-251609			US-PATENT-CLASS-315-111
		US-PATENT-CLASS-260-30.8DS			US-PATENT-CLASS-73-379			US-PATENT-3,394,286
		US-PATENT-CLASS-260-32.6N			US-PATENT-3,750,479			NASA-CASE-MFS-21441-1
		US-PATENT-CLASS-260-33.4R			NASA-CASE-LAR-10670-1			US-PATENT-APPL-SN-231662
		US-PATENT-CLASS-260-33.6R			US-PATENT-APPL-SN-59892			US-PATENT-CLASS-250-394
		US-PATENT-CLASS-260-47CP			US-PATENT-CLASS-149-1			US-PATENT-CLASS-250-518
		US-PATENT-CLASS-260-65			US-PATENT-CLASS-149-36			US-PATENT-3,752,986
		US-PATENT-CLASS-260-78TF			US-PATENT-CLASS-252-301.4			NASA-CASE-GSC-11487-1
		US-PATENT-CLASS-260-78UA			US-PATENT-CLASS-252-305			US-PATENT-APPL-SN-193814
N73-28013*	c 07	US-PATENT-3,745,149	N73-30097*	c 06	US-PATENT-CLASS-60-215	N73-30392*	c 14	US-PATENT-CLASS-250-394
		NASA-CASE-NPO-11593-1			US-PATENT-3,751,913			US-PATENT-CLASS-250-518
		US-PATENT-APPL-SN-172807			US-PATENT-3,751,913			US-PATENT-3,752,986
		US-PATENT-CLASS-179-15FS			NASA-CASE-MFS-21040-1			NASA-CASE-GSC-11487-1
		US-PATENT-CLASS-325-419			US-PATENT-APPL-SN-183240			US-PATENT-APPL-SN-193814
		US-PATENT-CLASS-329-122			US-PATENT-CLASS-260-485F			US-PATENT-CLASS-250-203
		US-PATENT-3,745,255			US-PATENT-3,752,847			US-PATENT-CLASS-350-199
		NASA-CASE-GSC-11046-1			NASA-CASE-MFS-10512			US-PATENT-CLASS-350-204
		US-PATENT-APPL-SN-182399			US-PATENT-APPL-SN-606027			US-PATENT-CLASS-350-55
		US-PATENT-CLASS-343-725			US-PATENT-CLASS-260-77.5			US-PATENT-3,752,559
N73-28045*	c 08	US-PATENT-CLASS-343-729	N73-30099*	c 06	US-PATENT-3,752,847	N73-30394*	c 14	NASA-CASE-LAR-10000
		US-PATENT-CLASS-343-797			NASA-CASE-MFS-10512			US-PATENT-APPL-SN-613235
		US-PATENT-CLASS-343-803			US-PATENT-APPL-SN-606027			US-PATENT-CLASS-73-398
		US-PATENT-CLASS-343-893			US-PATENT-CLASS-260-77.5			US-PATENT-CLASS-346,075
		US-PATENT-3,747,111			US-PATENT-3,463,761			NASA-CASE-LAR-10623-1
		NASA-CASE-XNP-00477			NASA-CASE-MFS-10506			US-PATENT-APPL-SN-214086
		US-PATENT-APPL-SN-175497			US-PATENT-APPL-SN-606036			US-PATENT-CLASS-15-415
		US-PATENT-CLASS-340-347			US-PATENT-CLASS-260-77.5			US-PATENT-CLASS-73-28
		US-PATENT-3,219,997			US-PATENT-3,463,762			US-PATENT-CLASS-73-421.5R
		NASA-CASE-GSC-11215-1			NASA-CASE-MFS-10507			US-PATENT-3,748,905
N73-28084*	c 09	US-PATENT-APPL-SN-114873	N73-30101*	c 06	US-PATENT-APPL-SN-605994	N73-30457*	c 15	NASA-CASE-GSC-11149-1
		US-PATENT-CLASS-29-628			US-PATENT-CLASS-260-615			US-PATENT-APPL-SN-152849
		US-PATENT-CLASS-29-629			US-PATENT-3,452,103			US-PATENT-CLASS-254-29A
		US-PATENT-CLASS-29-630			NASA-CASE-MFS-11492			US-PATENT-CLASS-29-452
		US-PATENT-CLASS-29-630A			US-PATENT-APPL-SN-707440			US-PATENT-CLASS-81-57.38
		US-PATENT-3,744,128			US-PATENT-CLASS-260-2			US-PATENT-3,749,362
		NASA-CASE-XNP-03623			US-PATENT-3,577,356			NASA-CASE-LEW-11087-1
		US-PATENT-APPL-SN-471154			NASA-CASE-MFS-10509			US-PATENT-APPL-SN-201904
		US-PATENT-CLASS-178-69.5			US-PATENT-APPL-SN-605964			US-PATENT-CLASS-308-188
		US-PATENT-3,402,265			US-PATENT-CLASS-260-77.5			US-PATENT-CLASS-308-193
N73-28144*	c 12	US-PATENT-3,744,128	N73-30103*	c 06	US-PATENT-3,475,384	N73-30458*	c 15	US-PATENT-3,751,123
		NASA-CASE-XNP-03623			NASA-CASE-MFS-10507			NASA-CASE-MSC-13587-1
		US-PATENT-APPL-SN-471154			US-PATENT-APPL-SN-605994			US-PATENT-APPL-SN-206698
		US-PATENT-CLASS-178-69.5			US-PATENT-CLASS-260-615			US-PATENT-CLASS-137-516.27
		US-PATENT-3,402,265			US-PATENT-3,452,103			US-PATENT-CLASS-137-535
		NASA-CASE-LAR-10612-1			NASA-CASE-MFS-11492			US-PATENT-3,749,123
		US-PATENT-APPL-SN-233173			US-PATENT-APPL-SN-707440			NASA-CASE-HQN-10638-1
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-260-2			US-PATENT-APPL-SN-212977
		US-PATENT-3,744,305			US-PATENT-3,577,356			US-PATENT-CLASS-188-1C
		NASA-CASE-NPO-11749			NASA-CASE-MFS-10509			US-PATENT-CLASS-297-386
N73-28486*	c 14	US-PATENT-APPL-SN-175267	N73-30105*	c 06	US-PATENT-APPL-SN-605964	N73-30459*	c 15	US-PATENT-APPL-SN-206698
		US-PATENT-CLASS-324-52			US-PATENT-CLASS-260-77.5			US-PATENT-CLASS-308-188
		US-PATENT-CLASS-73-15R			US-PATENT-3,475,384			US-PATENT-CLASS-308-193
		US-PATENT-3,737,762			US-PATENT-3,475,384			US-PATENT-3,751,123
		NASA-CASE-XLA-08916-2			NASA-CASE-NPO-11628-1			NASA-CASE-MSC-13587-1
		US-PATENT-APPL-SN-777765			US-PATENT-APPL-SN-207211			US-PATENT-APPL-SN-206698
		US-PATENT-APPL-SN-97472			US-PATENT-CLASS-325-420			US-PATENT-CLASS-137-516.27
		US-PATENT-CLASS-73-170R			US-PATENT-CLASS-325-422			US-PATENT-CLASS-137-535
		US-PATENT-CLASS-73-432R			US-PATENT-CLASS-329-120			US-PATENT-3,749,123
		US-PATENT-3,744,320			US-PATENT-3,746,998			NASA-CASE-HQN-10638-1
N73-28488*	c 14	US-PATENT-3,744,320	N73-30111*	c 07	NASA-CASE-KSC-10654-1	N73-30460*	c 15	US-PATENT-APPL-SN-212977
		NASA-CASE-LEW-11159-1			US-PATENT-APPL-SN-250766			US-PATENT-CLASS-188-1C
		US-PATENT-APPL-SN-104346			US-PATENT-CLASS-178-DIG.23			US-PATENT-CLASS-297-386
		US-PATENT-CLASS-250-336			US-PATENT-CLASS-178-6.6DD			US-PATENT-3,749,205
		US-PATENT-CLASS-307-308			US-PATENT-CLASS-178-6.8			NASA-CASE-MFS-20823-1
		US-PATENT-3,745,357			US-PATENT-CLASS-179-15BS			US-PATENT-APPL-SN-175981
		NASA-CASE-GSC-11074-1			US-PATENT-3,749,831			US-PATENT-CLASS-350-3.5
		US-PATENT-APPL-SN-198362			NASA-CASE-NPO-10817-1			US-PATENT-CLASS-356-108
		US-PATENT-CLASS-34-155			US-PATENT-APPL-SN-82649			US-PATENT-CLASS-356-109
		US-PATENT-CLASS-34-160			US-PATENT-CLASS-250-229			US-PATENT-3,744,912
N73-28489*	c 14	US-PATENT-CLASS-34-162	N73-30113*	c 07	US-PATENT-CLASS-250-237R	N73-30532*	c 18	NASA-CASE-ERC-10339-1
		US-PATENT-3,744,148			US-PATENT-CLASS-250-239			US-PATENT-APPL-SN-43883
		NASA-CASE-GSC-11444-1			US-PATENT-3,745,352			US-PATENT-CLASS-156-285
		US-PATENT-APPL-SN-229128			NASA-CASE-MFS-21214-1			US-PATENT-3,745,082
		US-PATENT-CLASS-250-203R			US-PATENT-APPL-SN-235269			NASA-CASE-GSC-10890-1
		US-PATENT-CLASS-250-209			US-PATENT-CLASS-313-161			US-PATENT-APPL-SN-111998
		US-PATENT-CLASS-250-214R			US-PATENT-CLASS-315-248			US-PATENT-CLASS-244-1SA
		US-PATENT-CLASS-356-141			US-PATENT-CLASS-315-324			US-PATENT-CLASS-250-203R
		US-PATENT-3,744,913			US-PATENT-3,745,410			US-PATENT-CLASS-250-209
		NASA-CASE-XNP-05231			NASA-CASE-NPO-11738-1			US-PATENT-CLASS-250-236
N73-28491*	c 14	US-PATENT-APPL-SN-524746	N73-30185*	c 09	US-PATENT-APPL-SN-235295	N73-30640*	c 21	US-PATENT-3,752,993
		US-PATENT-CLASS-250-51.5			US-PATENT-CLASS-335-296			NASA-CASE-LAR-10717-1
		US-PATENT-3,440,419			US-PATENT-CLASS-335-297			US-PATENT-APPL-SN-242028
		NASA-CASE-LEW-10533-1			US-PATENT-3,750,067			US-PATENT-CLASS-343-112CA
		US-PATENT-APPL-SN-134658			NASA-CASE-NPO-11307-1			US-PATENT-CLASS-343-6.5R
		US-PATENT-CLASS-219-107			US-PATENT-APPL-SN-169671			US-PATENT-3,750,168
		US-PATENT-CLASS-219-62			US-PATENT-CLASS-340-277			NASA-CASE-LEW-11326-1
		US-PATENT-CLASS-27-498			US-PATENT-CLASS-340-279			US-PATENT-APPL-SN-192970
		US-PATENT-CLASS-29-497.5			US-PATENT-3,750,131			US-PATENT-CLASS-431-173
		US-PATENT-3,745,300			NASA-CASE-MFS-20658-1			US-PATENT-CLASS-431-9
N73-28515*	c 15	NASA-CASE-XNP-01187	N73-30386*	c 14	US-PATENT-APPL-SN-205675	N73-30666*	c 23	US-PATENT-CLASS-60-39.65
		US-PATENT-APPL-SN-155598			US-PATENT-CLASS-324-79D			US-PATENT-CLASS-60-39.66
		NASA-CASE-XNP-01187			US-PATENT-CLASS-328-129			US-PATENT-CLASS-60-39.72
		US-PATENT-APPL-SN-524746			US-PATENT-CLASS-328-134			US-PATENT-CLASS-60-39.74R
		US-PATENT-CLASS-250-51.5			US-PATENT-CLASS-328-48			US-PATENT-3,748,853
		US-PATENT-3,440,419			US-PATENT-3,745,475			NASA-CASE-GSC-11296-1
		NASA-CASE-LEW-10533-1			NASA-CASE-NPO-11291-1			US-PATENT-APPL-SN-228190
		US-PATENT-APPL-SN-134658			US-PATENT-APPL-SN-116790			US-PATENT-CLASS-350-162SF
		US-PATENT-CLASS-219-107			US-PATENT-CLASS-324-29.5			US-PATENT-CLASS-350-55
		US-PATENT-CLASS-219-62			US-PATENT-CLASS-324-57R			US-PATENT-3,752,564
N73-28516*	c 15	US-PATENT-CLASS-27-498	N73-30388*	c 14	US-PATENT-CLASS-324-62R	N73-30829*	c 31	NASA-CASE-GSC-11018-1
		US-PATENT-CLASS-29-497.5			US-PATENT-CLASS-324-95			US-PATENT-APPL-SN-244523
		US-PATENT-3,745,300			US-PATENT-CLASS-324-95			US-PATENT-CLASS-165-105
		NASA-CASE-XNP-01187			US-PATENT-3,750,016			US-PATENT-CLASS-165-30
		US-PATENT-APPL-SN-155598			NASA-CASE-MFS-20546-2			US-PATENT-CLASS-165-33
		NASA-CASE-XNP-01187			NASA-CASE-MFS-20546-2			US-PATENT-CLASS-165-33
		US-PATENT-APPL-SN-524746			NASA-CASE-MFS-20546-2			US-PATENT-CLASS-165-33
		US-PATENT-CLASS-250-51.5			NASA-CASE-MFS-20546-2			US-PATENT-CLASS-165-33
		US-PATENT-3,440,419			NASA-CASE-MFS-20546-2			US-PATENT-CLASS-165-33
		NASA-CASE-XNP-01187			NASA-CASE-MFS-20546-2			US-PATENT-CLASS-165-33

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N73-33397*	c 16	US-PATENT-3,748,722	N74-11284*	c 35	US-PATENT-CLASS-178-6.6DD	N74-13011*	c 46	US-PATENT-CLASS-317-234R
		NASA-CASE-ARC-10444-1			US-PATENT-CLASS-179-100.2MD			US-PATENT-3,778,685
		US-PATENT-APPL-SN-167719			US-PATENT-CLASS-179-100.2T			NASA-CASE-MSC-12408-1
		US-PATENT-CLASS-331-94.5A			US-PATENT-CLASS-340-174.1L			US-PATENT-APPL-SN-229916
N74-10034*	c 02	US-PATENT-CLASS-350-285	N74-11300*	c 37	US-PATENT-3,770,903	N74-13129*	c 35	US-PATENT-CLASS-423-579
		US-PATENT-CLASS-356-138			NASA-CASE-NPO-11919-1			US-PATENT-3,773,913
		US-PATENT-CLASS-356-148			US-PATENT-APPL-SN-237694			NASA-CASE-FRC-10051-1
		US-PATENT-CLASS-356-153			US-PATENT-CLASS-250-343			US-PATENT-APPL-SN-253725
N74-10132*	c 32	US-PATENT-CLASS-356-172	N74-11301*	c 37	US-PATENT-3,766,380	N74-13130*	c 91	US-PATENT-CLASS-254-93R
		US-PATENT-3,764,220			NASA-CASE-LEW-10533-2			US-PATENT-CLASS-254-93R
		NASA-CASE-LAR-10776-1			US-PATENT-APPL-SN-247055			US-PATENT-CLASS-250-83CD
		US-PATENT-APPL-SN-211332			US-PATENT-CLASS-219-101			US-PATENT-3,776,028
N74-10194*	c 33	US-PATENT-CLASS-244-145	N74-11313*	c 36	US-PATENT-CLASS-219-107	N74-13132*	c 35	NASA-CASE-NPO-12127-1
		US-PATENT-3,764,097			US-PATENT-CLASS-219-78			US-PATENT-APPL-SN-106106
		NASA-CASE-NPO-11302-2			US-PATENT-CLASS-219-78			US-PATENT-CLASS-250-219DF
		US-PATENT-APPL-SN-266822			US-PATENT-CLASS-29-497.5			US-PATENT-CLASS-250-83CD
N74-10194*	c 33	US-PATENT-APPL-SN-70967	N74-11313*	c 37	US-PATENT-3,770,933	N74-13131*	c 39	US-PATENT-3,752,996
		US-PATENT-CLASS-178-69.4R			NASA-CASE-LAR-10170-1			NASA-CASE-MFS-20730-1
		US-PATENT-3,766,315			US-PATENT-APPL-SN-217213			US-PATENT-APPL-SN-182977
		NASA-CASE-NPO-11962-1			US-PATENT-CLASS-117-105.2			US-PATENT-CLASS-269-48.1
N74-10195*	c 33	US-PATENT-CLASS-331-1A	N74-11313*	c 36	US-PATENT-CLASS-29-460	N74-13132*	c 35	US-PATENT-CLASS-83-452
		US-PATENT-CLASS-331-14			US-PATENT-CLASS-29-498			US-PATENT-CLASS-83-602
		US-PATENT-CLASS-331-17			US-PATENT-CLASS-29-503			US-PATENT-CLASS-83-917
		US-PATENT-CLASS-331-178			US-PATENT-CLASS-29-527.2			US-PATENT-3,777,605
N74-10223*	c 33	US-PATENT-CLASS-331-4	N74-11313*	c 36	US-PATENT-3,769,689	N74-13132*	c 35	NASA-CASE-LAR-10910-1
		US-PATENT-3,764,933			NASA-CASE-HQN-10790-1			US-PATENT-APPL-SN-239577
		NASA-CASE-LEW-11617-1			US-PATENT-APPL-SN-235962			US-PATENT-CLASS-73-4R
		US-PATENT-APPL-SN-266832			US-PATENT-CLASS-333-83R			US-PATENT-CLASS-73-420
N74-10223*	c 33	US-PATENT-CLASS-315-5.35	N74-12778*	c 52	US-PATENT-CLASS-333-97R	N74-13177*	c 31	US-PATENT-3,777,546
		US-PATENT-CLASS-315-5.38			US-PATENT-3,771,074			NASA-CASE-LAR-10547-1
		US-PATENT-3,764,850			NASA-CASE-MFS-20284-1			US-PATENT-APPL-SN-193980
		NASA-CASE-LAR-10730-1			US-PATENT-APPL-SN-242027			US-PATENT-CLASS-264-294
N74-10415*	c 35	US-PATENT-CLASS-277-25	N74-12778*	c 52	US-PATENT-CLASS-128-2.05T	N74-13178*	c 37	US-PATENT-3,772,418
		US-PATENT-CLASS-277-27			US-PATENT-CLASS-128-2.06F			NASA-CASE-LAR-10544-1
		US-PATENT-CLASS-277-96			US-PATENT-CLASS-324-186			US-PATENT-APPL-SN-188928
		US-PATENT-3,767,212			US-PATENT-CLASS-324-78D			US-PATENT-CLASS-222-193
N74-10474*	c 37	US-PATENT-3,767,212	N74-12779*	c 54	US-PATENT-3,773,038	N74-13179*	c 37	US-PATENT-3,776,432
		NASA-CASE-LEW-10326-3			NASA-CASE-MFS-21115-1			NASA-CASE-LEW-10805-2
		US-PATENT-APPL-SN-99901			US-PATENT-APPL-SN-266930			US-PATENT-APPL-SN-233743
		US-PATENT-CLASS-277-25			US-PATENT-CLASS-222-309			US-PATENT-APPL-SN-29917
N74-10521*	c 26	US-PATENT-CLASS-277-27	N74-12812*	c 27	US-PATENT-CLASS-222-340	N74-13205*	c 36	US-PATENT-CLASS-29-182
		US-PATENT-CLASS-277-96			US-PATENT-CLASS-222-387			US-PATENT-CLASS-29-420.5
		US-PATENT-3,767,212			US-PATENT-CLASS-222-514			US-PATENT-CLASS-75-200
		NASA-CASE-LEW-10805-3			US-PATENT-3,777,942			US-PATENT-CLASS-75-213
N74-10521*	c 26	US-PATENT-APPL-SN-266928	N74-12812*	c 27	US-PATENT-CLASS-55-510	N74-13205*	c 36	US-PATENT-CLASS-75-214
		US-PATENT-APPL-SN-29917			NASA-CASE-ARC-10464-1			US-PATENT-CLASS-75-226
		US-PATENT-CLASS-148-126			US-PATENT-APPL-SN-198472			US-PATENT-CLASS-75-226
		US-PATENT-CLASS-29-420.5			US-PATENT-CLASS-260-2.5AM			US-PATENT-3,775,101
N74-10907*	c 05	US-PATENT-CLASS-75-200	N74-12813*	c 25	US-PATENT-CLASS-222-514	N74-13205*	c 36	NASA-CASE-NPO-11317-2
		US-PATENT-CLASS-75-226			US-PATENT-3,777,942			US-PATENT-APPL-SN-187143
		US-PATENT-3,765,958			US-PATENT-3,777,942			US-PATENT-APPL-SN-34989
		NASA-CASE-XMF-02263			NASA-CASE-ARC-10464-1			US-PATENT-CLASS-179-100.2CH
N74-10907*	c 05	US-PATENT-APPL-SN-78766	N74-12813*	c 25	US-PATENT-CLASS-260-2.5L	N74-13205*	c 36	US-PATENT-CLASS-250-205
		US-PATENT-CLASS-D71-1			US-PATENT-3,772,220			US-PATENT-CLASS-250-217
		US-PATENT-DES-228,688			NASA-CASE-NPO-11905-1			US-PATENT-CLASS-340-174.1M
		US-PATENT-CLASS-277-27			US-PATENT-APPL-SN-191301			US-PATENT-CLASS-340-174YC
N74-10942*	c 08	US-PATENT-CLASS-277-96	N74-12887*	c 33	US-PATENT-CLASS-128-191R	N74-13270*	c 27	US-PATENT-CLASS-350-151
		US-PATENT-3,767,212			US-PATENT-CLASS-23-252R			US-PATENT-3,778,791
		NASA-CASE-LEW-10805-3			US-PATENT-CLASS-23-281			NASA-CASE-LEW-11262-1
		US-PATENT-APPL-SN-341662			US-PATENT-CLASS-23-288F			US-PATENT-APPL-SN-136008
N74-10942*	c 08	US-PATENT-APPL-SN-29917	N74-12887*	c 33	US-PATENT-CLASS-23-288J	N74-13270*	c 27	US-PATENT-CLASS-204-192
		US-PATENT-CLASS-148-126			US-PATENT-CLASS-423-231			US-PATENT-3,772,174
		US-PATENT-CLASS-29-420.5			US-PATENT-CLASS-55-510			NASA-CASE-FRC-10049-1
		US-PATENT-CLASS-75-200			US-PATENT-CLASS-55-518			US-PATENT-APPL-SN-232021
N74-10975*	c 52	US-PATENT-CLASS-75-226	N74-12888*	c 60	US-PATENT-3,771,959	N74-13420*	c 04	US-PATENT-APPL-SN-23021
		US-PATENT-3,765,958			US-PATENT-CLASS-55-518			US-PATENT-CLASS-235-150.27
		NASA-CASE-XMF-02263			US-PATENT-3,771,959			US-PATENT-CLASS-235-150.22
		US-PATENT-APPL-SN-78766			US-PATENT-CLASS-55-518			US-PATENT-CLASS-235-150.26
N74-10975*	c 52	US-PATENT-APPL-SN-78766	N74-12888*	c 60	US-PATENT-CLASS-329-104	N74-13436*	c 70	US-PATENT-CLASS-244-77A
		US-PATENT-CLASS-D71-1			US-PATENT-CLASS-329-122			US-PATENT-CLASS-244-77B
		US-PATENT-DES-228,688			US-PATENT-CLASS-329-126			US-PATENT-CLASS-343-108R
		US-PATENT-CLASS-277-27			US-PATENT-3,772,272			US-PATENT-3,776,455
N74-10975*	c 52	US-PATENT-CLASS-277-96	N74-12888*	c 60	US-PATENT-3,772,272	N74-13436*	c 70	NASA-CASE-LAR-10385-2
		US-PATENT-3,767,212			NASA-CASE-MSC-14053-1			US-PATENT-APPL-SN-239803
		NASA-CASE-LEW-10805-3			US-PATENT-APPL-SN-266899			US-PATENT-APPL-SN-38816
		US-PATENT-APPL-SN-266928			US-PATENT-CLASS-328-123			US-PATENT-CLASS-117-106A
N74-11000*	c 32	US-PATENT-APPL-SN-29917	N74-12912*	c 32	US-PATENT-CLASS-340-173CR	N74-13502*	c 20	US-PATENT-CLASS-117-33.3
		US-PATENT-CLASS-148-126			US-PATENT-CLASS-340-173LM			US-PATENT-3,779,788
		US-PATENT-CLASS-29-420.5			US-PATENT-3,778,786			NASA-CASE-LEW-11058-1
		US-PATENT-CLASS-73-149			NASA-CASE-NPO-11850-1			US-PATENT-APPL-SN-233519
N74-11000*	c 32	US-PATENT-3,769,834	N74-12912*	c 32	US-PATENT-APPL-SN-186700	N74-13502*	c 20	US-PATENT-CLASS-60-258
		NASA-CASE-NPO-13171-1			US-PATENT-CLASS-343-188			US-PATENT-CLASS-60-259
		US-PATENT-APPL-SN-290915			US-PATENT-CLASS-343-6.5R			US-PATENT-3,777,490
		US-PATENT-CLASS-343-781			US-PATENT-CLASS-343-6.5SS			NASA-CASE-LAR-10782-1
N74-11049*	c 33	US-PATENT-CLASS-343-909	N74-12913*	c 33	US-PATENT-3,772,691	N74-14133*	c 31	US-PATENT-APPL-SN-197689
		US-PATENT-3,769,623			NASA-CASE-LEW-11162-1			US-PATENT-CLASS-264-102
		NASA-CASE-HQN-10792-1			US-PATENT-APPL-SN-143508			US-PATENT-3,780,151
		US-PATENT-APPL-SN-245063			US-PATENT-CLASS-313-153			NASA-CASE-LEW-11069-1
N74-11049*	c 33	US-PATENT-CLASS-321-18	N74-12913*	c 33	US-PATENT-CLASS-313-209	N74-14784*	c 44	US-PATENT-APPL-SN-83816
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-313-217			US-PATENT-CLASS-136-89
		US-PATENT-CLASS-321-45S			US-PATENT-CLASS-313-224			US-PATENT-CLASS-29-572
		US-PATENT-CLASS-323-DIG.1			US-PATENT-CLASS-313-209			US-PATENT-CLASS-29-588
N74-11050*	c 33	US-PATENT-CLASS-331-113A	N74-12951*	c 33	US-PATENT-3,777,200	N74-14845*	c 54	US-PATENT-3,780,424
		US-PATENT-CLASS-331-62			NASA-CASE-MFS-21374-1			US-PATENT-APPL-SN-193672
		US-PATENT-3,771,040			US-PATENT-APPL-SN-238047			US-PATENT-CLASS-9-11A
		NASA-CASE-LAR-10868-1			US-PATENT-CLASS-317-234E			US-PATENT-3,781,933
N74-11050*	c 33	US-PATENT-CLASS-137-819	N74-12951*	c 33	US-PATENT-CLASS-317-234F	N74-14920*	c 62	NASA-CASE-MSC-13932-1
		US-PATENT-APPL-SN-253249			US-PATENT-CLASS-317-234N			US-PATENT-APPL-SN-229354
		US-PATENT-CLASS-137-833			US-PATENT-CLASS-317-234M			
		US-PATENT-CLASS-137-840			US-PATENT-CLASS-317-234N			
N74-11283*	c 35	US-PATENT-3,770,021	N74-12951*	c 33	US-PATENT-CLASS-317-234N	N74-14920*	c 62	US-PATENT-APPL-SN-229354
		NASA-CASE-NPO-11659-1						
		US-PATENT-APPL-SN-228189						

		US-PATENT-CLASS-235-153AK US-PATENT-3,783,250				US-PATENT-CLASS-73-67.8S US-PATENT-3,777,552				US-PATENT-APPL-SN-201700 US-PATENT-CLASS-324-102
N74-14935*	c 33	NASA-CASE-MFS-21462-1 US-PATENT-APPL-SN-239576 US-PATENT-CLASS-219-477 US-PATENT-CLASS-219-539 US-PATENT-CLASS-338-320 US-PATENT-3,732,397	N74-15145*	c 36	NASA-CASE-NPO-11856-1 US-PATENT-APPL-SN-235268 US-PATENT-CLASS-250-217SS US-PATENT-CLASS-331-94.5K US-PATENT-CLASS-331-94.5S US-PATENT-CLASS-350-6 US-PATENT-CLASS-356-152 US-PATENT-CLASS-356-4 US-PATENT-CLASS-356-5 US-PATENT-3,781,111		N74-17955*	c 09	NASA-CASE-LAR-10812-1 US-PATENT-APPL-SN-263815 US-PATENT-CLASS-73-147 US-PATENT-3,791,207	
N74-14939*	c 33	NASA-CASE-FRC-10072-1 US-PATENT-APPL-SN-162100 US-PATENT-CLASS-330-10 US-PATENT-CLASS-330-35 US-PATENT-CLASS-330-9 US-PATENT-3,783,399	N74-15146*	c 35	NASA-CASE-MFS-21455-1 US-PATENT-APPL-SN-281877 US-PATENT-CLASS-350-3.5 US-PATENT-CLASS-356-106 US-PATENT-CLASS-73-71.3 US-PATENT-3,782,825		N74-18088*	c 35	NASA-CASE-LAR-11027-1 US-PATENT-APPL-SN-275118 US-PATENT-CLASS-250-338 US-PATENT-CLASS-250-370 US-PATENT-CLASS-250-371 US-PATENT-3,790,795	
N74-14956*	c 33	NASA-CASE-MSC-10732-1 US-PATENT-APPL-SN-293727 US-PATENT-CLASS-307-127 US-PATENT-CLASS-317-33SC US-PATENT-CLASS-317-43 US-PATENT-CLASS-317-46 US-PATENT-CLASS-317-47 US-PATENT-CLASS-317-48 US-PATENT-3,783,354	N74-15395*	c 38	NASA-CASE-MFS-21233-1 US-PATENT-APPL-SN-246056 US-PATENT-CLASS-324-40 US-PATENT-CLASS-73-67.5R US-PATENT-CLASS-73-71.5U US-PATENT-3,782,177		N74-18089*	c 31	NASA-CASE-LAR-10318-1 US-PATENT-APPL-SN-224489 US-PATENT-CLASS-156-245 US-PATENT-CLASS-156-247 US-PATENT-CLASS-156-285 US-PATENT-CLASS-156-309 US-PATENT-3,793,109	
N74-15089*	c 19	NASA-CASE-LAR-10586-1 US-PATENT-APPL-SN-289049 US-PATENT-CLASS-102-70.2R US-PATENT-CLASS-244-1SA US-PATENT-CLASS-244-3.16 US-PATENT-CLASS-250-203R US-PATENT-CLASS-250-237R US-PATENT-3,780,966	N74-15453*	c 07	NASA-CASE-LEW-11569-1 US-PATENT-APPL-SN-316618 US-PATENT-CLASS-181-43 US-PATENT-3,780,827		N74-18090*	c 35	NASA-CASE-NPO-13160-1 US-PATENT-APPL-SN-359157 US-PATENT-CLASS-321-8R US-PATENT-CLASS-324-57R US-PATENT-3,795,858	
N74-15090*	c 35	NASA-CASE-NPO-11432-2 US-PATENT-APPL-SN-258152 US-PATENT-APPL-SN-88435 US-PATENT-CLASS-250-211J US-PATENT-CLASS-250-214 US-PATENT-CLASS-317-235N US-PATENT-3,781,549	N74-15652*	c 34	NASA-CASE-LAR-10105-1 US-PATENT-APPL-SN-170680 US-PATENT-CLASS-73-86 US-PATENT-3,782,181		N74-18123*	c 37	NASA-CASE-LAR-10634-1 US-PATENT-APPL-SN-214084 US-PATENT-CLASS-23-253PC US-PATENT-CLASS-23-259 US-PATENT-CLASS-259-72 US-PATENT-CLASS-312-209 US-PATENT-CLASS-356-197 US-PATENT-CLASS-356-85 US-PATENT-3,790,347	
N74-15091*	c 35	NASA-CASE-LAR-11155-1 US-PATENT-APPL-SN-313381 US-PATENT-CLASS-250-360 US-PATENT-CLASS-250-361 US-PATENT-CLASS-250-369 US-PATENT-CLASS-250-492 US-PATENT-3,781,562	N74-15778*	c 51	NASA-CASE-ARC-10302-1 US-PATENT-APPL-SN-203271 US-PATENT-CLASS-119-51.13 US-PATENT-CLASS-119-51.5 US-PATENT-CLASS-119-51R US-PATENT-CLASS-119-52AF US-PATENT-CLASS-119-54 US-PATENT-CLASS-221-265 US-PATENT-3,782,334		N74-18124*	c 31	NASA-CASE-LAR-10489-1 US-PATENT-APPL-SN-198763 US-PATENT-CLASS-264-102 US-PATENT-3,790,650	
N74-15092*	c 35	NASA-CASE-LAR-10862-1 US-PATENT-APPL-SN-271951 US-PATENT-CLASS-73-4V US-PATENT-3,780,563	N74-15831*	c 35	NASA-CASE-GSC-11553-1 US-PATENT-APPL-SN-177985 US-PATENT-CLASS-178-6.7R US-PATENT-CLASS-219-216 US-PATENT-CLASS-219-388 US-PATENT-CLASS-34-162 US-PATENT-CLASS-346-108 US-PATENT-CLASS-346-138 US-PATENT-CLASS-346-24 US-PATENT-CLASS-95-89R US-PATENT-3,781,902		N74-18125*	c 37	NASA-CASE-MFS-21309-1 US-PATENT-APPL-SN-244519 US-PATENT-CLASS-180-79.3 US-PATENT-CLASS-301-5P US-PATENT-3,789,947	
N74-15093*	c 35	NASA-CASE-ARC-10442-1 US-PATENT-APPL-SN-280032 US-PATENT-CLASS-165-109 US-PATENT-CLASS-165-2 US-PATENT-CLASS-259-DIG.18 US-PATENT-CLASS-259-60 US-PATENT-CLASS-62-45 US-PATENT-3,782,698	N74-16135*	c 35	NASA-CASE-LAR-10595-1 US-PATENT-APPL-SN-273240 US-PATENT-CLASS-340-12R US-PATENT-CLASS-340-5R US-PATENT-CLASS-340-8R US-PATENT-3,783,444		N74-18126*	c 37	NASA-CASE-MFS-21364-1 US-PATENT-APPL-SN-214006 US-PATENT-CLASS-156-331 US-PATENT-CLASS-161-182 US-PATENT-CLASS-161-192 US-PATENT-CLASS-161-42 US-PATENT-CLASS-161-43 US-PATENT-CLASS-161-93 US-PATENT-CLASS-260-2R US-PATENT-CLASS-264-135 US-PATENT-CLASS-264-136 US-PATENT-CLASS-264-257 US-PATENT-3,790,432	
N74-15094*	c 35	NASA-CASE-NPO-13044-1 US-PATENT-APPL-SN-305012 US-PATENT-CLASS-73-497 US-PATENT-CLASS-73-517B US-PATENT-CLASS-74-5.6 US-PATENT-3,782,205	N74-17153*	c 35	NASA-CASE-MFS-21087-1 US-PATENT-APPL-SN-149283 US-PATENT-CLASS-350-3.5 US-PATENT-3,752,556		N74-18127*	c 37	NASA-CASE-MFS-21481-1 US-PATENT-APPL-SN-266771 US-PATENT-CLASS-128-25R US-PATENT-CLASS-272-73 US-PATENT-CLASS-272-80 US-PATENT-CLASS-74-594.6 US-PATENT-CLASS-74-594.7 US-PATENT-3,788,163	
N74-15095*	c 74	NASA-CASE-MSC-14096-1 US-PATENT-APPL-SN-242662 US-PATENT-CLASS-350-236 US-PATENT-CLASS-350-285 US-PATENT-CLASS-350-7 US-PATENT-CLASS-356-216 US-PATENT-CLASS-356-43 US-PATENT-3,782,835	N74-17283*	c 27	NASA-CASE-MFS-20486-2 US-PATENT-APPL-SN-292382 US-PATENT-APPL-SN-84212 US-PATENT-CLASS-260-29.6S US-PATENT-3,784,499		N74-18128*	c 37	NASA-CASE-LEW-11387-1 US-PATENT-APPL-SN-247090 US-PATENT-CLASS-29-482 US-PATENT-CLASS-29-488 US-PATENT-CLASS-29-497 US-PATENT-CLASS-29-498 US-PATENT-3,787,959	
N74-15125*	c 37	NASA-CASE-XLE-10326-4 US-PATENT-APPL-SN-220251 US-PATENT-APPL-SN-54540 US-PATENT-APPL-SN-723465 US-PATENT-CLASS-277-27 US-PATENT-CLASS-277-91 US-PATENT-3,782,737	N74-17853*	c 54	NASA-CASE-MFS-21163-1 US-PATENT-APPL-SN-266925 US-PATENT-CLASS-222-324 US-PATENT-CLASS-224-444 US-PATENT-3,790,037		N74-18323*	c 35	NASA-CASE-MFS-21136-1 US-PATENT-APPL-SN-262430 US-PATENT-CLASS-308-10 US-PATENT-CLASS-74-5.7 US-PATENT-3,763,708	
N74-15126*	c 35	NASA-CASE-ARC-10441-1 US-PATENT-APPL-SN-280029 US-PATENT-CLASS-259-98 US-PATENT-CLASS-417-470 US-PATENT-CLASS-417-471 US-PATENT-3,782,699	N74-17885*	c 35	NASA-CASE-MSC-13855-1 US-PATENT-APPL-SN-196931 US-PATENT-CLASS-325-38B US-PATENT-CLASS-332-11D US-PATENT-CLASS-340-347AO US-PATENT-3,795,900		N74-18551*	c 25	NASA-CASE-LAR-11053-1 US-PATENT-APPL-SN-281875 US-PATENT-CLASS-73-15R US-PATENT-3,789,854	
N74-15127*	c 35	NASA-CASE-NPO-11682-1 US-PATENT-APPL-SN-187365 US-PATENT-CLASS-23-284 US-PATENT-3,782,904	N74-17927*	c 33	NASA-CASE-NPO-13138-1 US-PATENT-APPL-SN-333201 US-PATENT-CLASS-328-155 US-PATENT-CLASS-333-16 US-PATENT-CLASS-333-18 US-PATENT-3,790,906		N74-18552*	c 34	NASA-CASE-NPO-11120-1 US-PATENT-APPL-SN-39343 US-PATENT-CLASS-165-105 US-PATENT-CLASS-267-166 US-PATENT-CLASS-29-157.3R US-PATENT-3,789,920	
N74-15128*	c 37	NASA-CASE-LEW-11087-2 US-PATENT-APPL-SN-201904 US-PATENT-APPL-SN-280390 US-PATENT-CLASS-29-148.4A US-PATENT-CLASS-29-148.4B US-PATENT-3,781,958	N74-17928*	c 33	NASA-CASE-NPO-11966-1 NASA-CASE-NPO-13159-1 US-PATENT-APPL-SN-284245 US-PATENT-CLASS-100-8 US-PATENT-CLASS-336-210 US-PATENT-3,792,399		N74-19310*	c 72	NASA-CASE-HON-10740-1 US-PATENT-APPL-SN-266943 US-PATENT-CLASS-356-106R US-PATENT-CLASS-356-112 US-PATENT-CLASS-356-28 US-PATENT-3,795,448	
N74-15130*	c 38	NASA-CASE-MFS-20767-1 US-PATENT-APPL-SN-196898	N74-17929*	c 33	NASA-CASE-ARC-10197-1 US-PATENT-APPL-SN-310624 US-PATENT-CLASS-317-16 US-PATENT-CLASS-317-31 US-PATENT-3,795,840		N74-19528*	c 09	NASA-CASE-LAR-10426-1 US-PATENT-APPL-SN-239575	
			N74-17930*	c 33	NASA-CASE-NUC-10107-1					

		US-PATENT-CLASS-73-15.6	N74-20813*	c 32	NASA-CASE-FRC-10071-1		US-PATENT-3,797,098
		US-PATENT-CLASS-73-91			US-PATENT-APPL-SN-307727	N74-21058*	c 37
		US-PATENT-3,795,134			US-PATENT-CLASS-178-7.7		NASA-CASE-MFS-22411-1
N74-19692*	c 44	NASA-CASE-GSC-11367-1			US-PATENT-CLASS-315-18		US-PATENT-APPL-SN-382262
		US-PATENT-APPL-SN-236985			US-PATENT-CLASS-315-22		US-PATENT-CLASS-260-448.2N
		US-PATENT-CLASS-136-36			US-PATENT-3,801,445		US-PATENT-3,801,617
		US-PATENT-3,759,747	N74-20836*	c 60	NASA-CASE-ERC-10180-1	N74-21059*	c 31
N74-19693*	c 44	NASA-CASE-NPO-11806-1			US-PATENT-APPL-SN-838278		NASA-CASE-LAR-10409-1
		US-PATENT-APPL-SN-228163			US-PATENT-CLASS-235-164		US-PATENT-APPL-SN-340864
		US-PATENT-CLASS-136-20			US-PATENT-3,803,393		US-PATENT-CLASS-29-423
		US-PATENT-CLASS-136-30	N74-20859*	c 33	NASA-CASE-XLE-2529-3	N74-21060*	c 37
		US-PATENT-3,790,409			US-PATENT-APPL-SN-288856		NASA-CASE-NPO-13105-1
N74-19769*	c 24	NASA-CASE-ERC-10073-1			US-PATENT-APPL-SN-487929		US-PATENT-APPL-SN-283502
		US-PATENT-APPL-SN-856253			US-PATENT-APPL-SN-848403		US-PATENT-CLASS-60-25
		US-PATENT-CLASS-117-95			US-PATENT-CLASS-315-211	N74-21061*	c 37
		US-PATENT-3,796,592			US-PATENT-CLASS-315-228		NASA-CASE-LEW-11076-1
N74-19788*	c 32	NASA-CASE-NPO-11820-1			US-PATENT-CLASS-331-94.5D		US-PATENT-APPL-SN-238264
		US-PATENT-APPL-SN-266912			US-PATENT-CLASS-332-7.51		US-PATENT-CLASS-308-73
		US-PATENT-CLASS-307-237			US-PATENT-3,806,835		US-PATENT-3,804,472
		US-PATENT-CLASS-328-160	N74-20860*	c 33	NASA-CASE-GSC-11446-1	N74-21062*	c 35
		US-PATENT-CLASS-328-168			US-PATENT-APPL-SN-263230		NASA-CASE-LAR-10295-1
		US-PATENT-CLASS-328-172			US-PATENT-CLASS-343-DIG.2		US-PATENT-APPL-SN-221685
		US-PATENT-CLASS-333-14			US-PATENT-CLASS-343-100SA		US-PATENT-CLASS-73-12
		US-PATENT-3,800,237			US-PATENT-CLASS-343-100ST		US-PATENT-CLASS-73-432
N74-19790*	c 32	NASA-CASE-MFS-21540-1			US-PATENT-CLASS-343-854	N74-21063*	c 37
		US-PATENT-APPL-SN-333912			US-PATENT-3,806,932		NASA-CASE-LEW-10698-1
		US-PATENT-CLASS-178-7.1	N74-20861*	c 33	NASA-CASE-GSC-11560-1		US-PATENT-APPL-SN-30498
		US-PATENT-CLASS-325-148			US-PATENT-APPL-SN-361906		US-PATENT-CLASS-106-52
		US-PATENT-3,800,224			US-PATENT-CLASS-350-269		US-PATENT-CLASS-117-129
N74-19870*	c 44	NASA-CASE-MFS-21470-1			US-PATENT-CLASS-354-234		US-PATENT-CLASS-161-196
		US-PATENT-APPL-SN-340871			US-PATENT-CLASS-95-53EA	N74-21064*	c 37
		US-PATENT-CLASS-325-62			US-PATENT-3,804,506		US-PATENT-APPL-SN-201904
		US-PATENT-CLASS-333-17	N74-20862*	c 33	NASA-CASE-GSC-11513-1		US-PATENT-APPL-SN-346361
		US-PATENT-CLASS-343-17.7			US-PATENT-APPL-SN-315069		US-PATENT-CLASS-308-188
		US-PATENT-CLASS-343-7.5			US-PATENT-CLASS-331-108A		US-PATENT-CLASS-308-191
		US-PATENT-3,795,910			US-PATENT-CLASS-331-115	N74-21065*	c 37
N74-20008*	c 74	NASA-CASE-GSC-11188-3			US-PATENT-CLASS-331-116R		NASA-CASE-NPO-11951-1
		US-PATENT-APPL-SN-244566			US-PATENT-CLASS-331-159		US-PATENT-APPL-SN-287150
		US-PATENT-APPL-SN-80029			US-PATENT-3,806,831		US-PATENT-CLASS-137-628
		US-PATENT-CLASS-117-45	N74-20863*	c 32	NASA-CASE-GSC-11909		US-PATENT-CLASS-251-120
		US-PATENT-3,799,793			US-PATENT-APPL-SN-244158		US-PATENT-CLASS-251-122
N74-20009*	c 36	NASA-CASE-NPO-11861-1			US-PATENT-CLASS-343-730		US-PATENT-CLASS-251-210
		US-PATENT-APPL-SN-266911			US-PATENT-CLASS-343-786		US-PATENT-3,802,660
		US-PATENT-CLASS-178-DIG.1			US-PATENT-CLASS-343-797	N74-21091*	c 36
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-343-853		NASA-CASE-GSC-11262-1
		US-PATENT-CLASS-178-7.6			US-PATENT-3,803,617		US-PATENT-APPL-SN-162380
		US-PATENT-3,800,074	N74-20864*	c 32	NASA-CASE-GSC-11428-1		US-PATENT-CLASS-250-204
N74-20063*	c 37	NASA-CASE-LAR-10129-2			US-PATENT-APPL-SN-292685		US-PATENT-CLASS-33-285
		US-PATENT-APPL-SN-319410			US-PATENT-CLASS-343-708		US-PATENT-CLASS-356-141
		US-PATENT-APPL-SN-99201			US-PATENT-CLASS-343-769		US-PATENT-CLASS-356-152
		US-PATENT-CLASS-312-1			US-PATENT-CLASS-343-853		US-PATENT-CLASS-356-172
		US-PATENT-3,796,473			US-PATENT-3,805,266	N74-21156*	c 27
N74-20329*	c 76	NASA-CASE-GSC-11425-1	N74-21014*	c 71	NASA-CASE-HQN-10832-1		NASA-CASE-ARC-10592-1
		US-PATENT-APPL-SN-206266			US-PATENT-APPL-SN-301417		US-PATENT-APPL-SN-321179
		US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-178-DIG.32		US-PATENT-CLASS-260-46.5E
		US-PATENT-3,799,813			US-PATENT-CLASS-178-5.8R		US-PATENT-3,803,090
N74-20646*	c 02	NASA-CASE-LEW-11188-1			US-PATENT-CLASS-178-7.2	N74-21300*	c 70
		US-PATENT-APPL-SN-152326			US-PATENT-CLASS-340-407		NASA-CASE-ARC-10516-1
		US-PATENT-CLASS-137-15.1			US-PATENT-CLASS-35-35A		US-PATENT-APPL-SN-267768
		US-PATENT-CLASS-137-15.2			US-PATENT-3,800,082		US-PATENT-CLASS-350-270
		US-PATENT-CLASS-244-53B	N74-21015*	c 19	NASA-CASE-LAR-10626-1		US-PATENT-CLASS-354-234
		US-PATENT-3,799,475			US-PATENT-APPL-SN-202750	N74-21304*	c 74
N74-20725*	c 54	NASA-CASE-MFS-22102-1			US-PATENT-CLASS-33-1SA		NASA-CASE-GSC-11353-1
		US-PATENT-APPL-SN-341621			US-PATENT-CLASS-33-46R		US-PATENT-APPL-SN-260241
		US-PATENT-CLASS-4-10			US-PATENT-3,798,778		US-PATENT-CLASS-250-231SE
		US-PATENT-CLASS-4-120	N74-21017*	c 35	NASA-CASE-MFS-21660-1		US-PATENT-CLASS-350-299
		US-PATENT-3,805,303			US-PATENT-APPL-SN-310616		US-PATENT-CLASS-356-152
N74-20726*	c 52	NASA-CASE-ARC-10597-1			US-PATENT-CLASS-324-83Q	N74-21850*	c 33
		US-PATENT-APPL-SN-281876			US-PATENT-3,806,802		NASA-CASE-GSC-11602-1
		US-PATENT-CLASS-128-2V	N74-21018*	c 35	NASA-CASE-LEW-10981-1		US-PATENT-APPL-SN-298157
		US-PATENT-CLASS-73-67.9			US-PATENT-APPL-SN-214089		US-PATENT-CLASS-315-10
		US-PATENT-3,802,253			US-PATENT-CLASS-310-11		US-PATENT-CLASS-315-12
N74-20728*	c 52	NASA-CASE-MFS-21415-1			US-PATENT-CLASS-324-34FL	N74-21851*	c 33
		US-PATENT-APPL-SN-318152			US-PATENT-CLASS-73-194EM		NASA-CASE-ARC-10596-1
		US-PATENT-CLASS-128-2.07			US-PATENT-3,802,262		US-PATENT-APPL-SN-267862
		US-PATENT-CLASS-128-2.08	N74-21019*	c 35	NASA-CASE-GSC-11600-1		US-PATENT-CLASS-330-28
		US-PATENT-CLASS-73-23			US-PATENT-APPL-SN-318357		US-PATENT-CLASS-330-59
		US-PATENT-CLASS-73-421.5R			US-PATENT-CLASS-73-1F		US-PATENT-3,811,094
		US-PATENT-3,799,149	N74-21055*	c 37	NASA-CASE-LEW-11388-2	N74-22095*	c 35
N74-20809*	c 32	NASA-CASE-MSC-12462-1			US-PATENT-APPL-SN-289033		NASA-CASE-NPO-10617-1
		US-PATENT-APPL-SN-274360			US-PATENT-APPL-SN-293726		US-PATENT-APPL-SN-828920
		US-PATENT-CLASS-178-88			US-PATENT-CLASS-29-487		US-PATENT-CLASS-73-190H
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		US-PATENT-3,800,227			US-PATENT-CLASS-29-504		US-PATENT-APPL-SN-582213
N74-20810*	c 32	NASA-CASE-MSC-12494-1			US-PATENT-3,798,748		US-PATENT-CLASS-330-103
		US-PATENT-APPL-SN-304705	N74-21056*	c 37	NASA-CASE-LAR-10688-1		US-PATENT-3,404,348
		US-PATENT-CLASS-325-321			US-PATENT-APPL-SN-285705	N74-22136*	c 18
		US-PATENT-CLASS-325-419			US-PATENT-CLASS-235-151		NASA-CASE-MFS-20922-1
		US-PATENT-3,806,816			US-PATENT-CLASS-235-92PE		US-PATENT-APPL-SN-220274
N74-20811*	c 32	NASA-CASE-NPO-13103-1			US-PATENT-CLASS-235-92SB		US-PATENT-CLASS-244-1SS
		US-PATENT-APPL-SN-338484			US-PATENT-3,800,253		US-PATENT-CLASS-49-68
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		US-PATENT-CLASS-329-122			US-PATENT-CLASS-29-470.1		NASA-CASE-ARC-10447-1
		US-PATENT-3,806,815					US-PATENT-APPL-SN-311175
							US-PATENT-CLASS-128-214E
							US-PATENT-CLASS-235-151.3
							US-PATENT-3,809,871
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N74-27903*	c 37	NASA-CASE-MSC-12549-1 US-PATENT-APPL-SN-301039 US-PATENT-CLASS-244-15D US-PATENT-3,820,741	N74-31270*	c 07	NASA-CASE-LAR-10642-1 US-PATENT-APPL-SN-266820 US-PATENT-CLASS-137-15.1 US-PATENT-CLASS-415-181 US-PATENT-3,829,237	N74-33378*	c 25	NASA-CASE-MFS-21675-1 US-PATENT-APPL-SN-392823 US-PATENT-CLASS-23-277C US-PATENT-CLASS-431-202 US-PATENT-3,833,336
N74-27904*	c 37	NASA-CASE-LEW-11672-1 US-PATENT-APPL-SN-305639 US-PATENT-CLASS-417-52 US-PATENT-3,819,299	N74-32418*	c 07	NASA-CASE-LAR-11141-1 US-PATENT-APPL-SN-359957 US-PATENT-CLASS-181-33C US-PATENT-CLASS-181-33F US-PATENT-CLASS-181-33H US-PATENT-CLASS-181-33L US-PATENT-CLASS-181-42 US-PATENT-3,830,335	N74-33379*	c 44	NASA-CASE-ARC-10461-1 US-PATENT-APPL-SN-336319 US-PATENT-CLASS-60-527 US-PATENT-3,830,060
N74-27905*	c 37	NASA-CASE-LAR-10450-1 US-PATENT-APPL-SN-289017 US-PATENT-CLASS-51-225 US-PATENT-CLASS-51-234 US-PATENT-CLASS-51-97R US-PATENT-3,820,286	N74-32546*	c 54	NASA-CASE-MSC-11072 US-PATENT-APPL-SN-689455 US-PATENT-CLASS-156-218 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-2-82 US-PATENT-3,832,735	N74-34638*	c 33	NASA-CASE-MFS-22343-1 US-PATENT-APPL-SN-329237 US-PATENT-CLASS-307-18 US-PATENT-CLASS-307-295 US-PATENT-CLASS-307-304 US-PATENT-CLASS-307-35 US-PATENT-3,840,829
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N74-30001*	c 24	NASA-CASE-LAR-10416-1 US-PATENT-APPL-SN-251752 US-PATENT-CLASS-156-94 US-PATENT-3,814,645	N74-32877*	c 35	NASA-CASE-LAR-10806-1 US-PATENT-APPL-SN-322998 US-PATENT-CLASS-33-1M US-PATENT-CLASS-33-23R US-PATENT-CLASS-338-89 US-PATENT-CLASS-340-347AD US-PATENT-CLASS-346-33R US-PATENT-3,832,781	N75-12161*	c 31	NASA-CASE-MFS-20775-1 US-PATENT-APPL-SN-356664 US-PATENT-CLASS-118-49.1 US-PATENT-3,847,115
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N74-30421*	c 08	NASA-CASE-LAR-10753-1 US-PATENT-APPL-SN-289018 US-PATENT-CLASS-244-327 US-PATENT-CLASS-244-90R US-PATENT-CLASS-244-91 US-PATENT-3,826,448	N74-32879*	c 35	NASA-CASE-MSC-14187-1 US-PATENT-APPL-SN-326326 US-PATENT-CLASS-23-230L US-PATENT-CLASS-73-104 US-PATENT-CLASS-73-15.4 US-PATENT-CLASS-73-40.7 US-PATENT-3,830,094	N75-12270*	c 35	NASA-CASE-KSC-10750-1 US-PATENT-APPL-SN-346372 US-PATENT-CLASS-324-158T US-PATENT-CLASS-324-60C US-PATENT-3,848,190
N74-30502*	c 25	NASA-CASE-LEW-10906-1 US-PATENT-APPL-SN-245279 US-PATENT-APPL-SN-876588 US-PATENT-CLASS-204-157.1H US-PATENT-3,826,726	N74-32917*	c 31	NASA-CASE-NPO-13205-1 US-PATENT-APPL-SN-393525 US-PATENT-CLASS-425-28B US-PATENT-CLASS-425-35 US-PATENT-3,833,322	N75-12271*	c 35	NASA-CASE-MFS-20994-1 US-PATENT-APPL-SN-386789 US-PATENT-CLASS-128-2V US-PATENT-CLASS-73-67.1 US-PATENT-3,847,141
N74-30523*	c 32	NASA-CASE-NPO-11921-1 US-PATENT-APPL-SN-359039 US-PATENT-CLASS-179-15BC US-PATENT-CLASS-325-346 US-PATENT-3,828,138	N74-32918*	c 37	NASA-CASE-NPO-13157-1 US-PATENT-APPL-SN-370872 US-PATENT-CLASS-29-203H US-PATENT-CLASS-29-268 US-PATENT-3,832,764	N75-12272*	c 35	NASA-CASE-LAR-11069-1 US-PATENT-APPL-SN-326198 US-PATENT-CLASS-195-127 US-PATENT-3,841,973
N74-30524*	c 32	NASA-CASE-MSC-13912-1 US-PATENT-APPL-SN-310034 US-PATENT-CLASS-179-15AT US-PATENT-CLASS-179-15BY US-PATENT-3,828,137	N74-32919*	c 20	NASA-CASE-LEW-11118-1 US-PATENT-APPL-SN-289050 US-PATENT-CLASS-204-9 US-PATENT-3,832,290	N75-12273*	c 35	NASA-CASE-MFS-20506-1 US-PATENT-APPL-SN-328792 US-PATENT-CLASS-33-DIG.13 US-PATENT-CLASS-33-180R US-PATENT-CLASS-350-292 US-PATENT-3,842,509
N74-30597*	c 09	NASA-CASE-LAR-10550-1 US-PATENT-APPL-SN-261183 US-PATENT-CLASS-35-12E US-PATENT-3,824,707	N74-32920*	c 31	NASA-CASE-LAR-10489-2 US-PATENT-APPL-SN-198763 US-PATENT-APPL-SN-350300 US-PATENT-CLASS-249-145 US-PATENT-CLASS-249-184 US-PATENT-CLASS-249-83 US-PATENT-CLASS-249-95 US-PATENT-CLASS-425-128 US-PATENT-CLASS-425-415 US-PATENT-3,830,609	N75-12326*	c 37	NASA-CASE-LAR-11211-1 US-PATENT-APPL-SN-302681 US-PATENT-CLASS-29-470.1 US-PATENT-CLASS-29-475 US-PATENT-3,842,485
N74-30608*	c 34	NASA-CASE-LAR-10194-1 US-PATENT-APPL-SN-169962 US-PATENT-CLASS-55-159 US-PATENT-CLASS-55-199 US-PATENT-CLASS-55-43 US-PATENT-3,828,524	N74-32921*	c 37	NASA-CASE-LEW-11076-2 US-PATENT-APPL-SN-238264 US-PATENT-APPL-SN-346483 US-PATENT-CLASS-308-121 US-PATENT-3,830,552	N75-12616*	c 54	NASA-CASE-MFS-21611-1 US-PATENT-APPL-SN-403694 US-PATENT-CLASS-214-1CM US-PATENT-CLASS-307-149 US-PATENT-CLASS-308-174
N74-30886*	c 89	NASA-CASE-GSC-11569-1 US-PATENT-APPL-SN-293725 US-PATENT-CLASS-250-203R US-PATENT-CLASS-33-268 US-PATENT-CLASS-356-141 US-PATENT-CLASS-356-147 US-PATENT-3,827,807	N74-33209*	c 28	NASA-CASE-NPO-11975-1 US-PATENT-APPL-SN-329243 US-PATENT-CLASS-149-17			
N74-31148*	c 71	NASA-CASE-NPO-11623-1 US-PATENT-APPL-SN-235338 US-PATENT-CLASS-181.5R US-PATENT-CLASS-73-69 US-PATENT-CLASS-73-71.5R						

N75-12732*	c 74	US-PATENT-3,849,668 NASA-CASE-ARC-10448-2 US-PATENT-APPL-SN-374424 US-PATENT-CLASS-156-16 US-PATENT-CLASS-156-18 US-PATENT-CLASS-156-7 US-PATENT-CLASS-250-495 US-PATENT-3,847,689	N75-13539*	c 60	US-PATENT-3,850,169 NASA-CASE-ARC-10466-1 US-PATENT-APPL-SN-352382 US-PATENT-CLASS-235-156 US-PATENT-CLASS-235-197 US-PATENT-CLASS-324-77B US-PATENT-3,851,162	US-PATENT-CLASS-117-93.3 US-PATENT-CLASS-156-89 US-PATENT-CLASS-156-99 US-PATENT-CLASS-29-472.7 US-PATENT-CLASS-29-473.1 US-PATENT-CLASS-65-43 US-PATENT-3,859,714		
N75-12810*	c 76	NASA-CASE-LAR-11059-1 US-PATENT-APPL-SN-367294 US-PATENT-CLASS-73-32R US-PATENT-CLASS-73-432PS US-PATENT-3,842,656	N75-13625*	c 75	NASA-CASE-MFS-22145-1 US-PATENT-APPL-SN-367606 US-PATENT-CLASS-176-3 US-PATENT-CLASS-313-63 US-PATENT-CLASS-315-111 US-PATENT-CLASS-328-233 US-PATENT-3,854,097	N75-16783*	c 35	NASA-CASE-ARC-10637-1 US-PATENT-APPL-SN-352383 US-PATENT-CLASS-356-28 US-PATENT-3,860,342
N75-12930*	c 05	NASA-CASE-ARC-10456-1 US-PATENT-APPL-SN-237491 US-PATENT-CLASS-244-75R US-PATENT-CLASS-244-83R US-PATENT-CLASS-416-25 US-PATENT-CLASS-74-480R US-PATENT-3,850,388	N75-14834*	c 23	NASA-CASE-MSC-13530-2 US-PATENT-APPL-SN-178771 US-PATENT-APPL-SN-69488 US-PATENT-CLASS-106-13 US-PATENT-CLASS-106-15R US-PATENT-CLASS-106-287SB US-PATENT-CLASS-117-124F US-PATENT-CLASS-117-135.5 US-PATENT-CLASS-252-549 US-PATENT-CLASS-252-70 US-PATENT-3,856,534	N75-18310*	c 20	NASA-CASE-LEW-11694-1 US-PATENT-APPL-SN-352381 US-PATENT-CLASS-29-25.18 US-PATENT-CLASS-72-63 US-PATENT-3,864,797
N75-12968*	c 09	NASA-CASE-MFS-22039-1 US-PATENT-APPL-SN-386790 US-PATENT-CLASS-108-136 US-PATENT-3,853,075	N75-14844*	c 25	NASA-CASE-NPO-12130-1 US-PATENT-APPL-SN-750235 US-PATENT-CLASS-23-230B US-PATENT-CLASS-23-253R US-PATENT-3,856,471	N75-18477*	c 33	NASA-CASE-MFS-22129-1 US-PATENT-APPL-SN-370255 US-PATENT-CLASS-324-32 US-PATENT-CLASS-324-54 US-PATENT-3,866,114
N75-12969*	c 09	NASA-CASE-ARC-10710-1 US-PATENT-APPL-SN-379019 US-PATENT-CLASS-73-147 US-PATENT-3,853,003	N75-14957*	c 33	NASA-CASE-MSC-14240-1 US-PATENT-APPL-SN-351929 US-PATENT-CLASS-307-205 US-PATENT-CLASS-307-208 US-PATENT-3,857,045	N75-18479*	c 33	NASA-CASE-MSC-14129-1 US-PATENT-APPL-SN-362146 US-PATENT-CLASS-307-229 US-PATENT-CLASS-307-235R US-PATENT-CLASS-307-267 US-PATENT-CLASS-328-115 US-PATENT-CLASS-328-151 US-PATENT-CLASS-328-58 US-PATENT-3,869,624
N75-13007*	c 15	NASA-CASE-GSC-11182-1 US-PATENT-APPL-SN-393527 US-PATENT-CLASS-325-4 US-PATENT-3,851,250	N75-15014*	c 35	NASA-CASE-LAR-11213-1 US-PATENT-APPL-SN-406715 US-PATENT-CLASS-250-201 US-PATENT-CLASS-356-4 US-PATENT-3,857,031	N75-18573*	c 37	NASA-CASE-NPO-13253-1 US-PATENT-APPL-SN-395687 US-PATENT-CLASS-248-358R US-PATENT-3,863,881
N75-13032*	c 24	NASA-CASE-LAR-10994-1 US-PATENT-APPL-SN-390466 US-PATENT-CLASS-29-420 US-PATENT-CLASS-29-604 US-PATENT-CLASS-340-174MA US-PATENT-CLASS-75-200 US-PATENT-3,849,877	N75-15028*	c 36	NASA-CASE-MFS-21244-1 US-PATENT-APPL-SN-350249 US-PATENT-CLASS-356-103 US-PATENT-CLASS-356-28 US-PATENT-CLASS-356-5 US-PATENT-3,856,402	N75-18574*	c 37	NASA-CASE-GSC-11079-1 US-PATENT-APPL-SN-100637 US-PATENT-CLASS-308-10 US-PATENT-3,865,442
N75-13111*	c 31	NASA-CASE-LAR-10782-2 US-PATENT-APPL-SN-197689 US-PATENT-APPL-SN-379049 US-PATENT-CLASS-249-144 US-PATENT-CLASS-249-145 US-PATENT-CLASS-249-59 US-PATENT-CLASS-425-DIG.43 US-PATENT-CLASS-425-405R US-PATENT-CLASS-425-438 US-PATENT-CLASS-425-468 US-PATENT-3,850,567	N75-15029*	c 36	NASA-CASE-NPO-13050-1 US-PATENT-APPL-SN-317567 US-PATENT-CLASS-117-95 US-PATENT-CLASS-117-97 US-PATENT-CLASS-330-4 US-PATENT-CLASS-332-7.5 US-PATENT-3,859,119	N75-19329*	c 18	NASA-CASE-MFS-22734-1 US-PATENT-APPL-SN-453232 US-PATENT-CLASS-244-162 US-PATENT-3,866,863
N75-13139*	c 33	NASA-CASE-MFS-22073-1 US-PATENT-APPL-SN-409991 US-PATENT-CLASS-318-608 US-PATENT-CLASS-318-640 US-PATENT-CLASS-318-649 US-PATENT-CLASS-318-675 US-PATENT-3,851,238	N75-15050*	c 37	NASA-CASE-NPO-13201-1 US-PATENT-APPL-SN-372149 US-PATENT-CLASS-137-505.38 US-PATENT-CLASS-137-505.42 US-PATENT-CLASS-74-424.8VA US-PATENT-3,856,042	N75-19408*	c 26	NASA-CASE-LEW-11696-2 US-PATENT-APPL-SN-298156 US-PATENT-APPL-SN-436315 US-PATENT-CLASS-29-194 US-PATENT-CLASS-29-196.2 US-PATENT-CLASS-29-196.6 US-PATENT-CLASS-29-197 US-PATENT-3,869,779
N75-13213*	c 35	NASA-CASE-LEW-11632-2 US-PATENT-APPL-SN-254173 US-PATENT-APPL-SN-327969 US-PATENT-CLASS-29-571 US-PATENT-CLASS-29-592 US-PATENT-CLASS-307-309 US-PATENT-CLASS-317-235H US-PATENT-CLASS-330-6 US-PATENT-3,849,875	N75-15270*	c 52	NASA-CASE-NPO-12119-1 US-PATENT-APPL-SN-847815 US-PATENT-CLASS-424-180 US-PATENT-3,849,554	N75-19515*	c 33	NASA-CASE-MSC-14131-1 US-PATENT-APPL-SN-373588 US-PATENT-CLASS-307-260 US-PATENT-CLASS-324-78J US-PATENT-CLASS-328-59 US-PATENT-CLASS-331-78 US-PATENT-3,866,128
N75-13261*	c 37	NASA-CASE-LEW-11696-1 US-PATENT-APPL-SN-298156 US-PATENT-CLASS-29-196.6 US-PATENT-CLASS-29-197 US-PATENT-CLASS-29-460 US-PATENT-CLASS-29-494 US-PATENT-CLASS-29-497.5 US-PATENT-CLASS-29-504 US-PATENT-3,849,865	N75-15662*	c 09	NASA-CASE-LAR-10276-1 US-PATENT-APPL-SN-29979 US-PATENT-CLASS-272-1R US-PATENT-CLASS-272-57A US-PATENT-CLASS-35-12C US-PATENT-3,859,736	N75-19516*	c 33	NASA-CASE-GSC-11760-1 NASA-CASE-GSC-11783-1 US-PATENT-APPL-SN-395868 US-PATENT-CLASS-343-761 US-PATENT-CLASS-343-781 US-PATENT-CLASS-343-837 US-PATENT-3,866,233
N75-13265*	c 37	NASA-CASE-KSC-10723-1 US-PATENT-APPL-SN-347952 US-PATENT-CLASS-338-162 US-PATENT-CLASS-338-75 US-PATENT-CLASS-338-97 US-PATENT-3,854,113	N75-15854*	c 32	NASA-CASE-NPO-13292-1 US-PATENT-APPL-SN-416135 US-PATENT-CLASS-343-100ST US-PATENT-CLASS-343-17.5 US-PATENT-CLASS-343-6.5R US-PATENT-CLASS-343-9 US-PATENT-3,860,921	N75-19517*	c 33	NASA-CASE-GSC-11582-1 US-PATENT-APPL-SN-397477 US-PATENT-CLASS-178-15 US-PATENT-CLASS-315-18 US-PATENT-CLASS-340-324AD US-PATENT-3,866,210
N75-13266*	c 37	NASA-CASE-NPO-13281-1 US-PATENT-APPL-SN-412079 US-PATENT-CLASS-74-436 US-PATENT-CLASS-74-820 US-PATENT-3,855,873	N75-15874*	c 33	NASA-CASE-MFS-22088-1 US-PATENT-APPL-SN-426155 US-PATENT-CLASS-318-227 US-PATENT-CLASS-318-230 US-PATENT-CLASS-318-231 US-PATENT-3,860,858	N75-19518*	c 33	NASA-CASE-ARC-10348-1 US-PATENT-APPL-SN-140439 US-PATENT-CLASS-330-69 US-PATENT-CLASS-330-86 US-PATENT-3,872,395
N75-13502*	c 51	NASA-CASE-LAR-11074-1 US-PATENT-APPL-SN-326364 US-PATENT-CLASS-115-103.5 US-PATENT-CLASS-195-120 US-PATENT-CLASS-195-127 US-PATENT-3,850,754	N75-15931*	c 35	NASA-CASE-MFS-21761-1 US-PATENT-APPL-SN-337816 US-PATENT-CLASS-200-83N US-PATENT-CLASS-73-40 US-PATENT-CLASS-73-49.2 US-PATENT-3,859,845	N75-19519*	c 33	NASA-CASE-NPO-13125-1 US-PATENT-APPL-SN-319150 US-PATENT-CLASS-235-92DM US-PATENT-CLASS-235-92LG US-PATENT-CLASS-235-92R US-PATENT-CLASS-235-92T US-PATENT-CLASS-235-92VA US-PATENT-3,866,022
N75-13531*	c 54	NASA-CASE-LEW-11581-1 US-PATENT-APPL-SN-327921 US-PATENT-CLASS-128-2.05A US-PATENT-CLASS-128-2.05P	N75-15932*	c 35	NASA-CASE-MFS-21045-1 US-PATENT-APPL-SN-411572 US-PATENT-CLASS-73-1R US-PATENT-CLASS-73-379 US-PATENT-3,859,840	N75-19520*	c 33	NASA-CASE-ARC-10364-3 US-PATENT-APPL-SN-209618 US-PATENT-APPL-SN-462844 US-PATENT-CLASS-307-321 US-PATENT-CLASS-324-DIG.1 US-PATENT-CLASS-329-166 US-PATENT-CLASS-329-204 US-PATENT-CLASS-332-47 US-PATENT-3,869,676
			N75-15992*	c 37	NASA-CASE-GSC-11577-1 US-PATENT-APPL-SN-322997 US-PATENT-CLASS-117-106A	N75-19521*	c 33	NASA-CASE-KSC-10736-1 US-PATENT-APPL-SN-348787 US-PATENT-CLASS-324-102 US-PATENT-CLASS-324-113

N75-19522*	c 33	US-PATENT-3,869,667	US-PATENT-CLASS-165-111	US-PATENT-CLASS-331-25
		NASA-CASE-GSC-11844-1	US-PATENT-CLASS-62-285	US-PATENT-3,883,817
		US-PATENT-APPL-SN-452761	US-PATENT-CLASS-62-288	NASA-CASE-ARC-10364-2
		US-PATENT-CLASS-307-227	US-PATENT-CLASS-62-289	US-PATENT-APPL-SN-209618
		US-PATENT-CLASS-321-15	US-PATENT-CLASS-62-290	US-PATENT-APPL-SN-433968
N75-19524*	c 33	US-PATENT-CLASS-324-32	US-PATENT-CLASS-62-317	US-PATENT-CLASS-307-321
		US-PATENT-3,869,659	US-PATENT-CLASS-62-93	US-PATENT-CLASS-324-DIG.1
		NASA-CASE-NPO-13374-1	US-PATENT-3,868,830	US-PATENT-CLASS-329-166
		US-PATENT-APPL-SN-449118	NASA-CASE-GSC-11752-1	US-PATENT-CLASS-329-204
		US-PATENT-CLASS-318-137	US-PATENT-APPL-SN-446569	US-PATENT-3,883,812
N75-19524*	c 33	US-PATENT-CLASS-318-167	US-PATENT-CLASS-219-497	NASA-CASE-NPO-10764-2
		US-PATENT-CLASS-318-176	US-PATENT-CLASS-219-501	US-PATENT-APPL-SN-273519
		US-PATENT-CLASS-318-183	US-PATENT-CLASS-219-505	US-PATENT-APPL-SN-836280
		US-PATENT-3,867,677	US-PATENT-3,869,597	US-PATENT-CLASS-116-114.5
		NASA-CASE-LAR-11071-1	NASA-CASE-MSC-12607-1	US-PATENT-CLASS-117-72
N75-19611*	c 35	US-PATENT-APPL-SN-334349	US-PATENT-APPL-SN-407323	US-PATENT-CLASS-73-356
		US-PATENT-CLASS-417-138	US-PATENT-CLASS-178-DIG.12	US-PATENT-3,874,240
		US-PATENT-CLASS-417-36	US-PATENT-CLASS-358-36	NASA-CASE-NPO-13214-1
		US-PATENT-CLASS-417-395	US-PATENT-3,875,584	NASA-CASE-NPO-13215-1
		US-PATENT-CLASS-73-221	NASA-CASE-MSC-14558-1	US-PATENT-APPL-SN-394149
N75-19612*	c 35	US-PATENT-3,864,060	US-PATENT-APPL-SN-428994	US-PATENT-CLASS-178-DIG.29
		NASA-CASE-LAR-11237-1	US-PATENT-CLASS-178-58A	US-PATENT-CLASS-178-7.2
		US-PATENT-APPL-SN-402868	US-PATENT-CLASS-178-79	US-PATENT-3,883,689
		US-PATENT-CLASS-340-242	US-PATENT-3,875,332	NASA-CASE-MFS-21704-1
		US-PATENT-CLASS-73-46	NASA-CASE-MFS-22671-1	US-PATENT-APPL-SN-386793
N75-19613*	c 35	US-PATENT-CLASS-73-49.2	US-PATENT-APPL-SN-419831	US-PATENT-CLASS-350-3.5
		US-PATENT-3,864,960	US-PATENT-CLASS-178-69A	US-PATENT-3,883,215
		NASA-CASE-LAR-11207-1	US-PATENT-CLASS-235-181	NASA-CASE-NPO-13360-1
		US-PATENT-APPL-SN-385013	US-PATENT-CLASS-324-57PS	US-PATENT-APPL-SN-401920
		US-PATENT-CLASS-178-DIG.20	US-PATENT-CLASS-324-77H	US-PATENT-CLASS-228-1
N75-19613*	c 35	US-PATENT-CLASS-250-332	US-PATENT-CLASS-325-67	US-PATENT-CLASS-251-333
		US-PATENT-CLASS-356-186	US-PATENT-3,875,500	US-PATENT-3,874,635
		US-PATENT-CLASS-356-189	NASA-CASE-LEW-11274-1	NASA-CASE-MFS-22649-1
		US-PATENT-CLASS-356-83	US-PATENT-APPL-SN-380630	US-PATENT-APPL-SN-398901
		US-PATENT-CLASS-356-96	US-PATENT-CLASS-277-134	US-PATENT-CLASS-408-112
N75-19614*	c 35	US-PATENT-3,869,212	US-PATENT-CLASS-277-27	US-PATENT-CLASS-408-186
		NASA-CASE-LAR-11173-1	US-PATENT-CLASS-277-40	US-PATENT-CLASS-408-193
		US-PATENT-APPL-SN-354408	US-PATENT-3,874,677	US-PATENT-CLASS-408-195
		US-PATENT-CLASS-332-2	NASA-CASE-NPO-13327-1	US-PATENT-3,877,833
		US-PATENT-CLASS-73-557	US-PATENT-APPL-SN-429437	NASA-CASE-ARC-10722-1
N75-19615*	c 35	US-PATENT-3,868,856	US-PATENT-CLASS-247-171	US-PATENT-APPL-SN-428995
		NASA-CASE-MFS-22189-1	US-PATENT-CLASS-250-203	US-PATENT-CLASS-47-1.2
		US-PATENT-APPL-SN-405342	US-PATENT-CLASS-250-211R	US-PATENT-CLASS-47-39
		US-PATENT-CLASS-33-148D	US-PATENT-3,875,404	US-PATENT-CLASS-47-58
		US-PATENT-CLASS-73-143	NASA-CASE-MSC-14339-1	US-PATENT-3,882,634
N75-19616*	c 35	US-PATENT-3,864,953	US-PATENT-APPL-SN-347953	NASA-CASE-HQN-10542-1
		NASA-CASE-MFS-20932-1	US-PATENT-CLASS-128-DIG.4	US-PATENT-APPL-SN-163151
		US-PATENT-APPL-SN-374441	US-PATENT-CLASS-128.2.06E	US-PATENT-CLASS-178-DIG.25
		US-PATENT-CLASS-250-505	US-PATENT-CLASS-128.2.06B	US-PATENT-CLASS-250-566
		US-PATENT-CLASS-250-508	US-PATENT-3,882,846	US-PATENT-CLASS-350-311
N75-19616*	c 35	US-PATENT-CLASS-250-510	NASA-CASE-ARC-10754-1	US-PATENT-3,883,436
		US-PATENT-3,869,615	US-PATENT-APPL-SN-398886	NASA-CASE-GSC-11425-2
		NASA-CASE-NPO-13131-1	US-PATENT-CLASS-137-15.1	US-PATENT-APPL-SN-206866
		US-PATENT-APPL-SN-390468	US-PATENT-CLASS-244-53B	US-PATENT-APPL-SN-394206
		US-PATENT-CLASS-178-7.1	US-PATENT-3,883,095	US-PATENT-CLASS-357-23
N75-19652*	c 36	US-PATENT-CLASS-250-211R	NASA-CASE-GSC-11127-1	US-PATENT-CLASS-357-29
		US-PATENT-CLASS-250-578	US-PATENT-APPL-SN-401466	US-PATENT-CLASS-357-42
		US-PATENT-CLASS-315-169R	US-PATENT-CLASS-318-314	US-PATENT-CLASS-357-52
		US-PATENT-CLASS-340-173LS	US-PATENT-CLASS-318-318	US-PATENT-CLASS-357-54
		US-PATENT-3,865,975	US-PATENT-CLASS-318-341	US-PATENT-CLASS-357-91
N75-19653*	c 36	NASA-CASE-HQN-10844-1	US-PATENT-3,883,785	US-PATENT-3,882,530
		US-PATENT-APPL-SN-412080	NASA-CASE-NPO-13263-1	NASA-CASE-LAR-11252-1
		US-PATENT-CLASS-356-106LR	US-PATENT-APPL-SN-393523	US-PATENT-APPL-SN-367268
		US-PATENT-3,869,210	US-PATENT-CLASS-73-505	US-PATENT-CLASS-D12-76
		NASA-CASE-GSC-11746-1	US-PATENT-3,882,732	US-PATENT-CLASS-244-13
N75-19654*	c 36	US-PATENT-APPL-SN-393528	NASA-CASE-MFS-21488-1	US-PATENT-CLASS-244-15
		US-PATENT-CLASS-331-94.5M	US-PATENT-APPL-SN-359156	US-PATENT-CLASS-244-42DA
		US-PATENT-3,869,680	US-PATENT-CLASS-73-143	US-PATENT-CLASS-244-55
		NASA-CASE-LAR-11341-1	US-PATENT-3,882,719	US-PATENT-3,884,432
		US-PATENT-APPL-SN-367293	NASA-CASE-NPO-13303-1	NASA-CASE-ARC-10519-2
N75-19655*	c 36	US-PATENT-CLASS-330-4.3	US-PATENT-APPL-SN-457295	US-PATENT-APPL-SN-452767
		US-PATENT-CLASS-331-94.5P	US-PATENT-CLASS-310-10	US-PATENT-CLASS-280-150SB
		US-PATENT-3,868,591	US-PATENT-CLASS-310-4	US-PATENT-CLASS-297-385
		NASA-CASE-MSC-19095-1	US-PATENT-CLASS-310-40	US-PATENT-CLASS-297-388
		US-PATENT-APPL-SN-415486	US-PATENT-CLASS-310-52	US-PATENT-CLASS-297-389
N75-19683*	c 37	US-PATENT-CLASS-219-137	US-PATENT-CLASS-335-216	US-PATENT-3,887,233
		US-PATENT-3,864,542	US-PATENT-CLASS-60-516	NASA-CASE-LAR-11144-1
		NASA-CASE-NPO-13345-1	US-PATENT-CLASS-60-530	US-PATENT-APPL-SN-426405
		US-PATENT-APPL-SN-462705	US-PATENT-CLASS-62-3	US-PATENT-CLASS-117-106A
		US-PATENT-CLASS-204-192	US-PATENT-CLASS-62-467	US-PATENT-CLASS-117-107.2
N75-19684*	c 37	US-PATENT-CLASS-204-298	US-PATENT-3,875,435	US-PATENT-CLASS-117-201
		US-PATENT-3,864,239	NASA-CASE-GSC-11743-1	US-PATENT-CLASS-118-48
		NASA-CASE-MFS-21606-1	US-PATENT-APPL-SN-370271	US-PATENT-CLASS-118-49.1
		US-PATENT-APPL-SN-356555	US-PATENT-CLASS-178-66R	US-PATENT-CLASS-148-175
		US-PATENT-CLASS-292-DIG.14	US-PATENT-CLASS-325-30	US-PATENT-CLASS-252-62.3GA
N75-19685*	c 37	US-PATENT-CLASS-292-108	US-PATENT-CLASS-325-60	US-PATENT-3,888,705
		US-PATENT-CLASS-292-122	US-PATENT-3,878,464	NASA-CASE-NPO-13217-1
		US-PATENT-3,869,160	NASA-CASE-NPO-13140-1	US-PATENT-APPL-SN-362145
		NASA-CASE-MFS-19193-1	US-PATENT-APPL-SN-374422	US-PATENT-CLASS-343-105R
		US-PATENT-APPL-SN-461477	US-PATENT-CLASS-343-100PE	US-PATENT-CLASS-343-112D
N75-19686*	c 37	US-PATENT-CLASS-285-114	US-PATENT-CLASS-343-5GC	US-PATENT-3,889,264
		US-PATENT-CLASS-285-226	US-PATENT-3,883,872	NASA-CASE-NPO-13321-1
		US-PATENT-3,869,151	NASA-CASE-GSC-11623-1	US-PATENT-APPL-SN-455163
		NASA-CASE-MSC-14143-1	US-PATENT-APPL-SN-389929	US-PATENT-CLASS-178-69.5R
		US-PATENT-APPL-SN-393526	US-PATENT-CLASS-331-1A	US-PATENT-CLASS-179-158S
N75-20139*	c 77	US-PATENT-CLASS-165-110	US-PATENT-CLASS-331-18	US-PATENT-CLASS-325-4

N75-26243*	c 33	US-PATENT-3,889,064	N75-27251*	c 33	US-PATENT-3,189,784	N75-29381*	c 35	US-PATENT-CLASS-311-37
		NASA-CASE-GSC-11744-1			NASA-CASE-HQN-10069			US-PATENT-CLASS-331-65
N75-26244*	c 33	US-PATENT-APPL-SN-353162	N75-27252*	c 33	US-PATENT-APPL-SN-739072	N75-29382*	c 35	US-PATENT-CLASS-73-23
		US-PATENT-CLASS-179-158C			US-PATENT-CLASS-330-5			US-PATENT-3,895,912
N75-26245*	c 33	US-PATENT-CLASS-235-150.53	N75-27328*	c 35	US-PATENT-3,551,831	N75-30132*	c 03	NASA-CASE-ARC-10806-1
		US-PATENT-CLASS-235-181			NASA-CASE-LAR-11042-1			US-PATENT-APPL-SN-478802
N75-26246*	c 33	US-PATENT-CLASS-324-83Q	N75-27329*	c 35	US-PATENT-APPL-SN-440916	N75-30256*	c 23	US-PATENT-CLASS-73-178R
		US-PATENT-CLASS-328-133			US-PATENT-CLASS-204-242			US-PATENT-3,895,521
N75-26282*	c 34	US-PATENT-3,875,394	N75-27330*	c 35	US-PATENT-CLASS-204-267	N75-30260*	c 24	NASA-CASE-XMS-05731
		NASA-CASE-MFS-22208-1			US-PATENT-CLASS-204-279			US-PATENT-APPL-SN-441279
N75-26334*	c 35	US-PATENT-APPL-SN-448325	N75-27331*	c 35	US-PATENT-CLASS-204-286	N75-30428*	c 33	US-PATENT-CLASS-73-117.4
		US-PATENT-CLASS-315-10			US-PATENT-CLASS-204-290R			US-PATENT-3,375,712
N75-26371*	c 37	US-PATENT-CLASS-315-367	N75-27364*	c 36	US-PATENT-3,891,533	N75-30429*	c 33	NASA-CASE-XLE-10717
		US-PATENT-CLASS-315-369			NASA-CASE-MFS-22537-1			US-PATENT-APPL-SN-844243
N75-26372*	c 37	US-PATENT-CLASS-315-387	N75-27376*	c 37	US-PATENT-APPL-SN-387266	N75-30430*	c 33	US-PATENT-CLASS-315-111
		US-PATENT-3,889,155			US-PATENT-CLASS-350-3.5			US-PATENT-3,004,189
N75-26789* #	c 70	US-PATENT-CLASS-324-58.5A	N75-27758*	c 54	US-PATENT-3,888,561	N75-30431*	c 33	NASA-CASE-ERC-10419-1
		US-PATENT-CLASS-324-58.5C			NASA-CASE-XMF-05882			US-PATENT-APPL-SN-219722
N75-27040*	c 18	US-PATENT-3,889,182	N75-27759*	c 54	US-PATENT-APPL-SN-533650	N75-30502*	c 35	US-PATENT-CLASS-343-112CA
		NASA-CASE-KSC-10807-1			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-343-6.5R
N75-27041*	c 18	US-PATENT-APPL-SN-461073	N75-27760*	c 54	US-PATENT-3,454,766	N75-30503*	c 35	US-PATENT-3,900,847
		US-PATENT-CLASS-324-72			NASA-CASE-LAR-11354-1			NASA-CASE-MFS-22356-1
N75-27125*	c 26	US-PATENT-3,889,185	N75-27761*	c 54	US-PATENT-APPL-SN-409990	N75-30504*	c 35	US-PATENT-APPL-SN-489008
		NASA-CASE-LAR-11110-1			US-PATENT-CLASS-195-103.5R			US-PATENT-CLASS-260-346.3
N75-27126*	c 26	US-PATENT-CLASS-233-20RP	N75-28135*	c 24	US-PATENT-CLASS-195-120	N75-30524*	c 36	US-PATENT-CLASS-260-520
		US-PATENT-CLASS-233-25			US-PATENT-CLASS-195-127			US-PATENT-CLASS-260-78TF
N75-27127*	c 26	US-PATENT-CLASS-233-46	N75-29192*	c 25	US-PATENT-CLASS-195-141	N75-30526*	c 37	US-PATENT-3,899,517
		US-PATENT-CLASS-233-6			US-PATENT-3,884,765			NASA-CASE-LAR-10337-1
N75-27160*	c 27	US-PATENT-CLASS-75-DIG.1	N75-29236*	c 26	NASA-CASE-GSC-11829-1	N75-30527*	c 37	US-PATENT-APPL-SN-424038
		US-PATENT-CLASS-75-200			US-PATENT-APPL-SN-502136			US-PATENT-CLASS-29-610
N75-27249*	c 33	US-PATENT-CLASS-75-208R	N75-29237* #	c 27	US-PATENT-CLASS-250-385	N75-30528*	c 73	US-PATENT-CLASS-29-613
		US-PATENT-CLASS-75-212			US-PATENT-3,891,851			US-PATENT-CLASS-338-13
N75-27250*	c 33	US-PATENT-CLASS-75-214	N75-29263* #	c 27	NASA-CASE-XLE-2529-2	N75-30876*	c 73	US-PATENT-CLASS-338-283
		US-PATENT-CLASS-75-222			US-PATENT-APPL-SN-848403			US-PATENT-3,898,730
		US-PATENT-3,887,365			US-PATENT-CLASS-240-41B			NASA-CASE-MFS-22342-1
		NASA-CASE-MFS-21931-1			US-PATENT-CLASS-330-4.3			US-PATENT-APPL-SN-361666
		US-PATENT-APPL-SN-464721			US-PATENT-CLASS-331-94.5A			US-PATENT-CLASS-330-13
		US-PATENT-CLASS-250-359			US-PATENT-3,894,289			US-PATENT-CLASS-330-18
		US-PATENT-CLASS-250-460			NASA-CASE-XMS-01330-1			US-PATENT-CLASS-330-40
		US-PATENT-CLASS-250-492			US-PATENT-APPL-SN-153624			US-PATENT-CLASS-330-63
		US-PATENT-3,889,122			US-PATENT-APPL-SN-322565			US-PATENT-3,898,578
		NASA-CASE-MFS-22758-1			US-PATENT-CLASS-219-125			NASA-CASE-MFS-21616-1
		US-PATENT-APPL-SN-581514			US-PATENT-3,275,794			US-PATENT-APPL-SN-464723
		NASA-CASE-XHQ-02146			NASA-CASE-NPO-13231-1			US-PATENT-CLASS-330-207A
		US-PATENT-APPL-SN-290043			US-PATENT-APPL-SN-428993			US-PATENT-CLASS-330-24
		US-PATENT-CLASS-52-71			US-PATENT-CLASS-250-343			US-PATENT-3,899,745
		US-PATENT-3,206,897			US-PATENT-CLASS-250-345			NASA-CASE-NPO-13504-1
		NASA-CASE-MSC-14245-1			US-PATENT-CLASS-250-432			US-PATENT-APPL-SN-483852
		US-PATENT-APPL-SN-389916			US-PATENT-3,891,848			US-PATENT-CLASS-33-96
		US-PATENT-CLASS-214-1CM			NASA-CASE-NPO-13386-1			US-PATENT-CLASS-333-21R
		US-PATENT-3,893,573			US-PATENT-APPL-SN-475336			US-PATENT-CLASS-333-83BT
		NASA-CASE-XMF-05868			US-PATENT-CLASS-214-1B			US-PATENT-CLASS-333-98R
		US-PATENT-APPL-SN-512509			US-PATENT-CLASS-214-1CM			US-PATENT-3,902,143
		US-PATENT-CLASS-260-29.6			US-PATENT-CLASS-318-640			NASA-CASE-KSC-10782-1
		US-PATENT-3,475,442			US-PATENT-3,888,362			US-PATENT-APPL-SN-400467
		NASA-CASE-XMF-06053			NASA-CASE-MSC-13601-2			US-PATENT-CLASS-178-DIG.1
		US-PATENT-APPL-SN-542192			US-PATENT-APPL-SN-395495			US-PATENT-CLASS-178-6.8
		US-PATENT-CLASS-75-173			US-PATENT-CLASS-351-38			US-PATENT-3,900,705
		US-PATENT-3,411,900			US-PATENT-3,891,311			NASA-CASE-ARC-10802-1
		NASA-CASE-XNP-03878			NASA-CASE-ARC-10753-1			US-PATENT-APPL-SN-484208
		US-PATENT-APPL-SN-488745			US-PATENT-APPL-SN-427395			US-PATENT-CLASS-205-343
		US-PATENT-CLASS-75-173			US-PATENT-CLASS-128-2.05Z			US-PATENT-CLASS-250-351
		US-PATENT-3,373,016			US-PATENT-CLASS-128-2V			US-PATENT-CLASS-250-373
		NASA-CASE-MFS-22324-1			US-PATENT-CLASS-128-24A			US-PATENT-CLASS-356-51
		US-PATENT-APPL-SN-350250			US-PATENT-CLASS-74-471XY			US-PATENT-3,899,252
		US-PATENT-CLASS-106-48			US-PATENT-3,893,449			NASA-CASE-LEW-12078-1
		US-PATENT-CLASS-106-54			NASA-CASE-NPO-13313-1			US-PATENT-APPL-SN-447124
		US-PATENT-CLASS-117-129			US-PATENT-APPL-SN-449153			US-PATENT-CLASS-73-194M
		US-PATENT-3,891,452			US-PATENT-CLASS-128-145.8			US-PATENT-CLASS-73-195
		NASA-CASE-XMS-02744			US-PATENT-CLASS-55-DIG.35			US-PATENT-3,898,882
		US-PATENT-APPL-SN-351950			US-PATENT-3,893,458			NASA-CASE-MSC-12531-1
		US-PATENT-CLASS-200-129			NASA-CASE-MFS-21077-1			US-PATENT-APPL-SN-354612
		US-PATENT-3,281,558			US-PATENT-APPL-SN-127481			US-PATENT-CLASS-307-204
		NASA-CASE-XNP-01296			US-PATENT-CLASS-228-190			US-PATENT-CLASS-307-219
		US-PATENT-APPL-SN-127984			US-PATENT-CLASS-228-193			US-PATENT-CLASS-328-61
		US-PATENT-CLASS-315-30			US-PATENT-CLASS-29-419			US-PATENT-CLASS-328-62
					US-PATENT-3,894,677			US-PATENT-3,900,741
					NASA-CASE-HQN-10462			NASA-CASE-NPO-13308-1
					US-PATENT-APPL-SN-773530			US-PATENT-APPL-SN-455165
					US-PATENT-CLASS-118-43			US-PATENT-CLASS-310-4
					US-PATENT-3,603,285			US-PATENT-CLASS-331-DIG.1
					NASA-CASE-XNP-01311			US-PATENT-3,899,696
					US-PATENT-APPL-SN-430496			NASA-CASE-LEW-11076-3
					US-PATENT-CLASS-148-127			US-PATENT-APPL-SN-405346
					US-PATENT-3,390,023			US-PATENT-CLASS-308-121
					NASA-CASE-LAR-11397-1			US-PATENT-CLASS-308-73
					US-PATENT-APPL-SN-532784			US-PATENT-3,899,224
					NASA-CASE-ARC-10266-1			NASA-CASE-LEW-11227-1
					US-PATENT-APPL-SN-453241			US-PATENT-APPL-SN-146939
					US-PATENT-APPL-SN-585988			US-PATENT-CLASS-244-1SS
					US-PATENT-CLASS-315-111			US-PATENT-CLASS-250-493
					US-PATENT-3,469,143			US-PATENT-CLASS-250-496
					NASA-CASE-MFS-22060-1			US-PATENT-3,899,680
					US-PATENT-APPL-SN-521603			NASA-CASE-NPO-13423-1
					US-PATENT-CLASS-23-254E			US-PATENT-APPL-SN-470429
					US-PATENT-CLASS-23-255E			

N75-31330*	c 33	US-PATENT-CLASS-128-2S	US-PATENT-CLASS-279-1B	N76-14429*	c 35	NASA-CASE-LAR-11552-1
		US-PATENT-CLASS-338-2	US-PATENT-CLASS-279-107			US-PATENT-APPL-SN-518685
		US-PATENT-CLASS-73-88.5	US-PATENT-CLASS-279-88.5			US-PATENT-CLASS-73-182
		US-PATENT-3,905,356	US-PATENT-CLASS-29-26A			US-PATENT-CLASS-73-212
N75-31331*	c 33	NASA-CASE-NPO-13426-1	US-PATENT-CLASS-294-116	N76-14430*	c 35	US-PATENT-3,914,997
		US-PATENT-APPL-SN-45053	US-PATENT-CLASS-294-86.33			NASA-CASE-NPO-13170-1
		US-PATENT-CLASS-307-225R	US-PATENT-3,907,312			US-PATENT-APPL-SN-382261
		US-PATENT-CLASS-328-41	NASA-CASE-LEW-12051-1			US-PATENT-CLASS-338-6
N75-31331*	c 33	US-PATENT-3,906,374	US-PATENT-APPL-SN-397478	N76-14431*	c 35	US-PATENT-CLASS-73-88.5R
		NASA-CASE-NPO-11156-2	US-PATENT-CLASS-128-230			US-PATENT-3,914,991
		US-PATENT-APPL-SN-174684	US-PATENT-CLASS-128-305			NASA-CASE-LEW-11915-1
		US-PATENT-CLASS-307-238	US-PATENT-3,906,954			US-PATENT-APPL-SN-474744
N75-31332*	c 33	US-PATENT-CLASS-340-173CA	NASA-CASE-LAR-11051-1	N76-14447*	c 36	US-PATENT-CLASS-137-15.2
		US-PATENT-CLASS-357-24	US-PATENT-APPL-SN-384773			US-PATENT-CLASS-235-151.34
		US-PATENT-CLASS-357-7	US-PATENT-CLASS-244-165			US-PATENT-CLASS-60-39.29
		US-PATENT-3,906,296	US-PATENT-CLASS-244-3.21			US-PATENT-3,911,260
N75-31426*	c 36	NASA-CASE-NPO-13348-1	US-PATENT-CLASS-74-5.7	N76-14447*	c 36	NASA-CASE-ARC-10642-1
		US-PATENT-APPL-SN-452770	US-PATENT-3,915,416			US-PATENT-APPL-SN-446562
		US-PATENT-CLASS-250-238	NASA-CASE-MS-C-12559-1			US-PATENT-CLASS-356-106R
		US-PATENT-CLASS-250-370	US-PATENT-APPL-SN-370582			US-PATENT-CLASS-356-28
N75-31427*	c 36	US-PATENT-CLASS-357-5	US-PATENT-CLASS-178-DIG.20	N76-14460*	c 37	US-PATENT-3,915,572
		US-PATENT-3,906,231	US-PATENT-CLASS-244-161			NASA-CASE-MFS-19194-1
		NASA-CASE-ARC-10370-1	US-PATENT-CLASS-33-286			US-PATENT-APPL-SN-483850
		US-PATENT-APPL-SN-137391	US-PATENT-CLASS-35-12			US-PATENT-CLASS-285-226
N75-31427*	c 36	US-PATENT-CLASS-331-94.5G	US-PATENT-CLASS-356-153	N76-14461*	c 37	US-PATENT-3,915,482
		US-PATENT-CLASS-331-94.5P	US-PATENT-3,910,533			NASA-CASE-LEW-11694-2
		US-PATENT-3,906,397	NASA-CASE-LEW-11593-1			US-PATENT-APPL-SN-352381
		NASA-CASE-NPO-13175-1	US-PATENT-APPL-SN-363691			US-PATENT-APPL-SN-462903
N75-31446*	c 37	US-PATENT-APPL-SN-374423	US-PATENT-CLASS-60-39.23	N76-14463*	c 37	US-PATENT-CLASS-29-421
		US-PATENT-CLASS-331-94.5C	US-PATENT-CLASS-60-39.29			US-PATENT-CLASS-72-363
		US-PATENT-CLASS-350-161	US-PATENT-CLASS-60-39.74R			US-PATENT-CLASS-72-54
		US-PATENT-CLASS-350-96WG	US-PATENT-3,910,035			US-PATENT-CLASS-72-63
N75-32441*	c 36	US-PATENT-3,906,393	NASA-CASE-LEW-11118-2	N76-14595*	c 44	US-PATENT-3,914,969
		NASA-CASE-LEW-11925-1	US-PATENT-APPL-SN-436316			NASA-CASE-MFS-22232-1
		US-PATENT-APPL-SN-450505	US-PATENT-CLASS-239-127.3			US-PATENT-APPL-SN-474745
		US-PATENT-CLASS-308-191	US-PATENT-CLASS-60-265			US-PATENT-CLASS-137-515.3
N75-32465* #	c 37	US-PATENT-CLASS-308-195	US-PATENT-CLASS-60-267	N76-14600*	c 44	US-PATENT-CLASS-137-550
		US-PATENT-CLASS-308-201	US-PATENT-3,910,039			US-PATENT-CLASS-210-429
		US-PATENT-3,905,660	NASA-CASE-NPO-12122-1			US-PATENT-CLASS-251-149.6
		NASA-CASE-NPO-13449-1	US-PATENT-APPL-SN-401921			US-PATENT-CLASS-3,910,307
N75-32581*	c 44	US-PATENT-APPL-SN-420813	US-PATENT-CLASS-149-36	N76-14601*	c 44	NASA-CASE-MFS-22262-1
		US-PATENT-CLASS-310-11	US-PATENT-CLASS-423-407			US-PATENT-APPL-SN-458484
		US-PATENT-CLASS-330-4.3	US-PATENT-3,919,014			US-PATENT-CLASS-126-270
		US-PATENT-CLASS-331-94.5PE	NASA-CASE-MS-C-12568-1			US-PATENT-CLASS-136-206
N75-32581*	c 44	US-PATENT-CLASS-331-94.5G	US-PATENT-APPL-SN-325784	N76-14602*	c 44	US-PATENT-CLASS-136-206R
		US-PATENT-3,906,398	US-PATENT-CLASS-136-146			US-PATENT-CLASS-204-32R
		NASA-CASE-ARC-10907-1	US-PATENT-CLASS-136-148			US-PATENT-CLASS-204-33
		US-PATENT-APPL-SN-619986	US-PATENT-CLASS-162-102			US-PATENT-CLASS-204-38A
N75-33181*	c 24	NASA-CASE-MFS-21628-1	US-PATENT-CLASS-162-153	N76-14601*	c 44	US-PATENT-CLASS-204-40
		US-PATENT-APPL-SN-421702	US-PATENT-CLASS-162-222			US-PATENT-CLASS-204-42
		US-PATENT-CLASS-126-271	US-PATENT-CLASS-162-228			US-PATENT-CLASS-204-49
		US-PATENT-CLASS-165-105	US-PATENT-3,910,814			US-PATENT-CLASS-29-194
N75-33342*	c 34	US-PATENT-CLASS-244-173	NASA-CASE-MS-C-14182-1	N76-14602*	c 44	US-PATENT-CLASS-29-195
		US-PATENT-CLASS-60-641	US-PATENT-APPL-SN-419748			US-PATENT-CLASS-29-197
		US-PATENT-CLASS-60-659	US-PATENT-CLASS-403-179			US-PATENT-CLASS-29-193
		US-PATENT-3,903,699	US-PATENT-CLASS-403-28			US-PATENT-3,920,413
N75-33367*	c 35	NASA-CASE-LEW-11484-1	US-PATENT-CLASS-428-109	N76-14600*	c 44	NASA-CASE-LEW-11065-2
		US-PATENT-APPL-SN-356554	US-PATENT-CLASS-428-212			US-PATENT-APPL-SN-154930
		US-PATENT-CLASS-117-105.2	US-PATENT-CLASS-428-214			US-PATENT-APPL-SN-371322
		US-PATENT-CLASS-117-38	US-PATENT-CLASS-428-416			US-PATENT-CLASS-136-69
N75-33367*	c 35	US-PATENT-CLASS-117-46FS	US-PATENT-CLASS-428-477	N76-14601*	c 44	US-PATENT-CLASS-29-572
		US-PATENT-CLASS-117-8.5	US-PATENT-CLASS-428-77			US-PATENT-3,912,540
		US-PATENT-CLASS-29-DIG.24	US-PATENT-3,920,339			NASA-CASE-MFS-22749-1
		US-PATENT-CLASS-29-DIG.39	NASA-CASE-NPO-13435-1			US-PATENT-APPL-SN-483857
N75-33368*	c 35	US-PATENT-CLASS-29-527.2	US-PATENT-APPL-SN-478803	N76-14602*	c 44	US-PATENT-CLASS-136-114
		US-PATENT-CLASS-72-46	US-PATENT-CLASS-62-129			US-PATENT-CLASS-136-162
		US-PATENT-3,906,769	US-PATENT-CLASS-62-49			US-PATENT-CLASS-136-182
		NASA-CASE-MS-C-14273-1	US-PATENT-CLASS-73-295			US-PATENT-CLASS-136-90
N75-33369*	c 35	US-PATENT-APPL-SN-385522	US-PATENT-3,914,950	N76-14602*	c 44	US-PATENT-3,912,541
		US-PATENT-CLASS-210-234	NASA-CASE-LAR-11021-1			NASA-CASE-NPO-13497-1
		US-PATENT-CLASS-210-259	US-PATENT-APPL-SN-453115			US-PATENT-APPL-SN-526448
		US-PATENT-CLASS-210-304	US-PATENT-CLASS-325-304			US-PATENT-CLASS-126-271
N75-33395*	c 37	US-PATENT-CLASS-210-333	US-PATENT-CLASS-325-306	N76-14757*	c 52	US-PATENT-CLASS-237-1A
		US-PATENT-CLASS-210-340	US-PATENT-CLASS-325-372			US-PATENT-CLASS-350-211
		US-PATENT-CLASS-210-411	US-PATENT-CLASS-328-145			US-PATENT-3,915,148
		US-PATENT-CLASS-210-425	US-PATENT-CLASS-343-176			NASA-CASE-MS-C-14180-1
N75-33395*	c 37	US-PATENT-CLASS-210-512	US-PATENT-3,916,316	N76-14804*	c 54	US-PATENT-APPL-SN-354406
		US-PATENT-CLASS-210-82	NASA-CASE-KSC-10834-1			US-PATENT-CLASS-128-2.06R
		US-PATENT-3,907,686	US-PATENT-APPL-SN-536535			US-PATENT-CLASS-128-2.1A
		NASA-CASE-LAR-10629-1	US-PATENT-CLASS-178-69.5R			US-PATENT-CLASS-128-2H
N75-33395*	c 37	US-PATENT-APPL-SN-402867	US-PATENT-CLASS-178-88	N76-14804*	c 54	US-PATENT-3,910,257
		US-PATENT-CLASS-116-114AH	US-PATENT-CLASS-328-190			NASA-CASE-MS-C-14640-1
		US-PATENT-CLASS-73-12	US-PATENT-CLASS-328-63			US-PATENT-APPL-SN-526449
		US-PATENT-CLASS-73-170R	US-PATENT-3,916,084			US-PATENT-CLASS-128-2F
N75-33395*	c 37	US-PATENT-CLASS-73-432PS	NASA-CASE-LAR-10970-1	N76-14818*	c 60	US-PATENT-CLASS-73-421R
		US-PATENT-3,896,758	US-PATENT-APPL-SN-527790			US-PATENT-3,915,012
		NASA-CASE-LAR-11326-1	US-PATENT-CLASS-343-770			NASA-CASE-NPO-13422-1
		US-PATENT-APPL-SN-491416	US-PATENT-CLASS-343-797			US-PATENT-APPL-SN-521601
N75-33395*	c 37	US-PATENT-CLASS-195-103.5R	US-PATENT-CLASS-343-846	N76-14931*	c 75	US-PATENT-CLASS-340-147C
		US-PATENT-3,907,646	US-PATENT-3,919,710			US-PATENT-CLASS-340-147R
		NASA-CASE-LAR-11263-1	NASA-CASE-NPO-13451-1			US-PATENT-3,916,380
		US-PATENT-APPL-SN-472775	US-PATENT-APPL-SN-501012			NASA-CASE-MFS-22287-1
N75-33395*	c 37	US-PATENT-CLASS-73-141A	US-PATENT-CLASS-235-92SH	N76-14931*	c 75	US-PATENT-APPL-SN-438147
		US-PATENT-3,906,788	US-PATENT-CLASS-307-221R			US-PATENT-CLASS-315-111.6
		NASA-CASE-MFS-22283-1	US-PATENT-CLASS-328-37			US-PATENT-CLASS-73-12
		US-PATENT-APPL-SN-387095	US-PATENT-3,911,330			US-PATENT-CLASS-89-8

N76-15189*	c 12	NASA-CASE-MSC-12611-1 US-PATENT-APPL-SN-446560 US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-293 US-PATENT-CLASS-427-162 US-PATENT-CLASS-427-250 US-PATENT-3,927,227	US-PATENT-APPL-SN-500980 US-PATENT-CLASS-250-499 US-PATENT-CLASS-250-500 US-PATENT-3,924,137	US-PATENT-CLASS-244-172 US-PATENT-3,929,306 NASA-CASE-LAR-10799-2 US-PATENT-APPL-SN-301419 US-PATENT-APPL-SN-419319 US-PATENT-CLASS-165-105 US-PATENT-CLASS-165-106 US-PATENT-CLASS-237-60 US-PATENT-CLASS-244-117A US-PATENT-CLASS-244-135R US-PATENT-CLASS-417-209 US-PATENT-3,929,305
N76-15268*	c 23	NASA-CASE-MFS-22355-1 US-PATENT-APPL-SN-487852 US-PATENT-CLASS-260-32.8N US-PATENT-CLASS-260-32.8N US-PATENT-CLASS-260-346.3 US-PATENT-CLASS-260-47CP US-PATENT-CLASS-260-571 US-PATENT-CLASS-260-78TF US-PATENT-3,925,312	N76-16014* c 02 NASA-CASE-LAR-11575-1 US-PATENT-APPL-SN-527727 US-PATENT-CLASS-244-139 US-PATENT-3,930,628	N76-17317* c 34 NASA-CASE-LAR-11675-1 US-PATENT-APPL-SN-557448 US-PATENT-CLASS-178-DIG.1 US-PATENT-CLASS-178-DIG.8 US-PATENT-CLASS-178-6.8 US-PATENT-CLASS-250-373 US-PATENT-CLASS-340-237S US-PATENT-CLASS-356-207 US-PATENT-3,931,462
N76-15310*	c 27	NASA-CASE-ARC-10714-1 US-PATENT-APPL-SN-398885 US-PATENT-CLASS-260-2.5AK US-PATENT-CLASS-427-196 US-PATENT-CLASS-427-426 US-PATENT-CLASS-428-303 US-PATENT-3,916,060	N76-16228* c 27 NASA-CASE-NPO-12061-1 US-PATENT-APPL-SN-45549 US-PATENT-CLASS-260-879 US-PATENT-CLASS-260-900 US-PATENT-CLASS-260-92.1 US-PATENT-3,931,132	N76-17656* c 45 NASA-CASE-LAR-11675-1 US-PATENT-APPL-SN-557448 US-PATENT-CLASS-178-DIG.1 US-PATENT-CLASS-178-DIG.8 US-PATENT-CLASS-178-6.8 US-PATENT-CLASS-250-373 US-PATENT-CLASS-340-237S US-PATENT-CLASS-356-207 US-PATENT-3,931,462
N76-15311*	c 27	NASA-CASE-NPO-13120-1 US-PATENT-APPL-SN-348422 US-PATENT-CLASS-29-182.5 US-PATENT-3,926,567	N76-16229* c 27 NASA-CASE-LEW-11179-1 US-PATENT-APPL-SN-357312 US-PATENT-CLASS-29-195A US-PATENT-CLASS-427-203 US-PATENT-CLASS-427-204 US-PATENT-CLASS-427-205 US-PATENT-CLASS-427-270 US-PATENT-CLASS-427-275 US-PATENT-CLASS-427-287 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-469 US-PATENT-CLASS-428-539 US-PATENT-3,931,447	N76-17951* c 75 NASA-CASE-MFS-22145-2 US-PATENT-APPL-SN-367606 US-PATENT-APPL-SN-500982 US-PATENT-CLASS-124-1 US-PATENT-CLASS-124-11R US-PATENT-CLASS-89-8 US-PATENT-3,929,119
N76-15329*	c 32	NASA-CASE-GSC-11968-1 US-PATENT-APPL-SN-512825 US-PATENT-CLASS-343-779 US-PATENT-CLASS-343-837 US-PATENT-CLASS-343-876 US-PATENT-3,927,408	N76-16230* c 27 NASA-CASE-ARC-10813-1 US-PATENT-APPL-SN-437556 US-PATENT-CLASS-264-331 US-PATENT-CLASS-428-412 US-PATENT-CLASS-428-413 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-911 US-PATENT-CLASS-428-920 US-PATENT-CLASS-428-921 US-PATENT-3,928,708	N76-18117* c 07 NASA-CASE-LAR-11674-1 US-PATENT-APPL-SN-331759 US-PATENT-APPL-SN-488616 US-PATENT-CLASS-181-33HC US-PATENT-CLASS-239-265.11 US-PATENT-3,938,742
N76-15330*	c 32	NASA-CASE-LAR-11112-1 US-PATENT-APPL-SN-491419 US-PATENT-CLASS-343-786 US-PATENT-3,924,237	N76-16249* c 32 NASA-CASE-MSC-14557-1 US-PATENT-APPL-SN-428994 US-PATENT-APPL-SN-464720 US-PATENT-CLASS-178-69C US-PATENT-CLASS-178-88 US-PATENT-CLASS-325-321 US-PATENT-3,924,068	N76-18245* c 25 NASA-CASE-NPO-13063-1 US-PATENT-APPL-SN-227977 US-PATENT-CLASS-23-230M US-PATENT-CLASS-23-230R US-PATENT-CLASS-23-232C US-PATENT-CLASS-23-253R US-PATENT-CLASS-23-254R US-PATENT-CLASS-23-255R US-PATENT-CLASS-235-151.13 US-PATENT-CLASS-73-23.1 US-PATENT-3,860,393
N76-15373*	c 33	NASA-CASE-LEW-11938-1 US-PATENT-APPL-SN-544611 US-PATENT-CLASS-317-258 US-PATENT-CLASS-317-261 US-PATENT-3,924,164	N76-16331* c 33 NASA-CASE-MSC-14649-1 US-PATENT-APPL-SN-505819 US-PATENT-CLASS-324-79D US-PATENT-CLASS-328-134 US-PATENT-3,924,183	N76-18257* c 26 NASA-CASE-MFS-22907-1 US-PATENT-APPL-SN-518546 US-PATENT-CLASS-324-34R US-PATENT-3,938,037
N76-15431*	c 35	NASA-CASE-MSC-13802-2 US-PATENT-APPL-SN-189438 US-PATENT-APPL-SN-475338 US-PATENT-CLASS-250-251 US-PATENT-CLASS-250-287 US-PATENT-CLASS-250-423 US-PATENT-3,916,187	N76-16332* c 33 NASA-CASE-GSC-11849-1 US-PATENT-APPL-SN-470428 US-PATENT-CLASS-174-145 US-PATENT-CLASS-174-148 US-PATENT-CLASS-339-143C US-PATENT-CLASS-339-198R US-PATENT-CLASS-339-242 US-PATENT-CLASS-339-275R US-PATENT-3,931,456	N76-18295* c 32 NASA-CASE-GSC-11862-1 US-PATENT-APPL-SN-500979 US-PATENT-CLASS-343-837 US-PATENT-CLASS-343-840 US-PATENT-CLASS-343-912 US-PATENT-CLASS-343-915 US-PATENT-3,938,162
N76-15432*	c 35	NASA-CASE-LAR-11435-1 US-PATENT-APPL-SN-522556 US-PATENT-CLASS-310-8.2 US-PATENT-CLASS-73-1R US-PATENT-3,924,444	N76-16390* c 35 NASA-CASE-NPO-13388-1 US-PATENT-APPL-SN-522552 US-PATENT-CLASS-324-43R US-PATENT-3,924,176	N76-18345* c 33 NASA-CASE-NPO-13385-1 US-PATENT-APPL-SN-501011 US-PATENT-CLASS-340-347AD US-PATENT-3,938,188
N76-15433*	c 35	NASA-CASE-GSC-11892-1 US-PATENT-APPL-SN-502135 US-PATENT-CLASS-250-336 US-PATENT-CLASS-250-385 US-PATENT-CLASS-250-489 US-PATENT-3,927,324	N76-16391* c 35 NASA-CASE-NPO-10166-2 US-PATENT-APPL-SN-192803 US-PATENT-APPL-SN-668116 US-PATENT-CLASS-360-10 US-PATENT-CLASS-360-101 US-PATENT-CLASS-360-35 US-PATENT-CLASS-360-9 US-PATENT-3,924,267	N76-18353* c 33 NASA-CASE-GSC-11925-1 US-PATENT-APPL-SN-538983 US-PATENT-CLASS-360-26 US-PATENT-CLASS-360-51 US-PATENT-3,938,182
N76-15434*	c 35	NASA-CASE-LEW-11072-2 US-PATENT-APPL-SN-254323 US-PATENT-CLASS-136-211 US-PATENT-CLASS-136-212 US-PATENT-CLASS-136-225 US-PATENT-3,925,104	N76-16392* c 35 NASA-CASE-LAR-11458-1 US-PATENT-APPL-SN-504225 US-PATENT-CLASS-294-1R US-PATENT-CLASS-294-19R US-PATENT-3,929,364	N76-18364* c 34 NASA-CASE-LAR-11570-1 US-PATENT-APPL-SN-482967 US-PATENT-CLASS-244-23D US-PATENT-CLASS-60-316 US-PATENT-3,940,097
N76-15435*	c 35	NASA-CASE-NPO-13506-1 US-PATENT-APPL-SN-483851 US-PATENT-CLASS-343-909 US-PATENT-3,924,239	N76-16393* c 35 NASA-CASE-GSC-11889-1 US-PATENT-APPL-SN-502124 US-PATENT-CLASS-250-281 US-PATENT-CLASS-250-287 US-PATENT-CLASS-250-288 US-PATENT-CLASS-250-385 US-PATENT-CLASS-250-423 US-PATENT-3,931,516	N76-18374* c 34 NASA-CASE-MFS-22938-1 US-PATENT-APPL-SN-542754 US-PATENT-CLASS-250-335 US-PATENT-3,940,621
N76-15436*	c 35	NASA-CASE-GSC-11895-1 US-PATENT-APPL-SN-511887 US-PATENT-CLASS-331-3 US-PATENT-CLASS-331-94 US-PATENT-3,924,200	N76-16446* # c 37 NASA-CASE-NPO-13342-1 US-PATENT-APPL-SN-390049 US-PATENT-CLASS-250-287 US-PATENT-CLASS-250-288 US-PATENT-CLASS-250-385 US-PATENT-CLASS-250-423 US-PATENT-3,931,516	N76-18400* c 35 NASA-CASE-LAR-10208-1 US-PATENT-APPL-SN-483858 US-PATENT-CLASS-73-103 US-PATENT-CLASS-73-95 US-PATENT-3,938,373
N76-15457*	c 37	NASA-CASE-MFS-22707-1 US-PATENT-APPL-SN-535410 US-PATENT-CLASS-214-1R US-PATENT-CLASS-74-384 US-PATENT-CLASS-74-665B US-PATENT-3,922,930	N76-16612* c 44 NASA-CASE-MFS-22002-1 US-PATENT-APPL-SN-452769 US-PATENT-CLASS-136-202 US-PATENT-CLASS-136-210 US-PATENT-CLASS-165-105 US-PATENT-CLASS-310-4 US-PATENT-3,931,532	N76-18401* c 35 NASA-CASE-NPO-13396-1 US-PATENT-APPL-SN-563283 US-PATENT-CLASS-55-261 US-PATENT-CLASS-73-28 US-PATENT-CLASS-73-421.5R US-PATENT-3,938,367
N76-15460*	c 37	NASA-CASE-MFS-22022-1 US-PATENT-APPL-SN-405341 US-PATENT-CLASS-214-1CM US-PATENT-3,923,166	N76-17185* c 18 NASA-CASE-MSC-12561-1 US-PATENT-APPL-SN-448323 US-PATENT-CLASS-244-162	N76-18402* c 35 NASA-CASE-MFS-22517-1 US-PATENT-APPL-SN-506804 US-PATENT-CLASS-350-3.5 US-PATENT-3,937,555
N76-15461*	c 37	NASA-CASE-LEW-11076-4 US-PATENT-APPL-SN-238264 US-PATENT-APPL-SN-346483 US-PATENT-APPL-SN-445178 US-PATENT-CLASS-308-122 US-PATENT-CLASS-308-160 US-PATENT-CLASS-308-72 US-PATENT-CLASS-308-73 US-PATENT-CLASS-308-9 US-PATENT-3,926,482	N76-18403* c 35 NASA-CASE-ARC-10322-1 US-PATENT-APPL-SN-484209 US-PATENT-CLASS-23-254EF US-PATENT-3,938,956	N76-18427* c 36 NASA-CASE-NPO-11945-1 US-PATENT-APPL-SN-269450 US-PATENT-CLASS-331-94.5
N76-15860*	c 72	NASA-CASE-LEW-11866-1		

				US-PATENT-CLASS-332-7.51	N76-19436*	c 37	NASA-CASE-MFS-20607-1	US-PATENT-CLASS-33-1G
				US-PATENT-CLASS-350-150			US-PATENT-APPL-SN-478800	US-PATENT-CLASS-33-174B
				US-PATENT-CLASS-350-160			US-PATENT-CLASS-222-145	US-PATENT-3,945,879
				US-PATENT-CLASS-423-352			US-PATENT-CLASS-259-44C	N76-21742*
				US-PATENT-CLASS-423-644			US-PATENT-3,941,355	c 45
				US-PATENT-3,806,834	N76-19437*	c 37	NASA-CASE-MSC-12615-1	NASA-CASE-NPO-13474-1
N76-18428*	c 36			NASA-CASE-NPO-13544-1			US-PATENT-APPL-SN-491417	US-PATENT-APPL-SN-521817
				US-PATENT-APPL-SN-533555			US-PATENT-CLASS-244-117A	US-PATENT-CLASS-23-254E
				US-PATENT-CLASS-331-94.5C			US-PATENT-CLASS-244-163	US-PATENT-CLASS-250-574
				US-PATENT-CLASS-350-96WG			US-PATENT-CLASS-29-432	US-PATENT-CLASS-356-37
				US-PATENT-3,939,439			US-PATENT-CLASS-29-433	US-PATENT-3,945,801
N76-18454*	c 37			NASA-CASE-MFS-23047-1			US-PATENT-CLASS-29-526	N76-21914*
				US-PATENT-APPL-SN-521602			US-PATENT-CLASS-29-526	c 60
				US-PATENT-CLASS-173-132			US-PATENT-CLASS-52-705	NASA-CASE-NPO-13139-1
				US-PATENT-CLASS-29-81D			US-PATENT-CLASS-52-758F	US-PATENT-APPL-SN-393524
				US-PATENT-CLASS-72-453	N76-19785*	c 52	US-PATENT-3,936,927	US-PATENT-CLASS-235-153AE
				US-PATENT-CLASS-73-399			NASA-CASE-LAR-11667-1	US-PATENT-CLASS-340-172.5
				US-PATENT-3,937,055			US-PATENT-APPL-SN-583487	US-PATENT-3,950,729
N76-18455*	c 37			NASA-CASE-MSC-14435-1			US-PATENT-CLASS-128-DIG.20	N76-22154*
				US-PATENT-APPL-SN-450500			US-PATENT-CLASS-128-26	c 02
				US-PATENT-CLASS-228-193			US-PATENT-3,937,215	NASA-CASE-LAR-10585-1
				US-PATENT-CLASS-228-206	N76-19888*	c 66	NASA-CASE-MFS-22631-1	US-PATENT-APPL-SN-197183
				US-PATENT-CLASS-228-214			US-PATENT-APPL-SN-531572	US-PATENT-CLASS-244-35R
				US-PATENT-CLASS-228-238			US-PATENT-CLASS-340-38P	US-PATENT-CLASS-244-40R
				US-PATENT-3,937,387			US-PATENT-CLASS-356-162	US-PATENT-3,952,971
N76-18456*	c 37			NASA-CASE-LAR-11224-1			US-PATENT-CLASS-356-167	N76-22245*
				US-PATENT-APPL-SN-450502			US-PATENT-CLASS-356-71	c 17
				US-PATENT-CLASS-134-21			US-PATENT-3,930,735	NASA-CASE-GSC-11868-1
				US-PATENT-CLASS-134-37	N76-19935*	c 74	NASA-CASE-MFS-21672-1	US-PATENT-APPL-SN-565290
				US-PATENT-CLASS-19-205			US-PATENT-APPL-SN-354060	US-PATENT-CLASS-178-69.5
				US-PATENT-CLASS-209-250			US-PATENT-CLASS-356-123	US-PATENT-CLASS-328-155
				US-PATENT-CLASS-209-300			US-PATENT-CLASS-356-124	US-PATENT-CLASS-340-147SY
				US-PATENT-CLASS-209-305			US-PATENT-3,938,892	US-PATENT-CLASS-340-207P
				US-PATENT-3,937,661	N76-20114*	c 04	NASA-CASE-LAR-11387-1	US-PATENT-3,953,674
N76-18457*	c 37			NASA-CASE-NPO-13402-1			US-PATENT-APPL-SN-531647	N76-22284*
				US-PATENT-APPL-SN-387342			US-PATENT-CLASS-33-356	c 19
				US-PATENT-CLASS-123-DIG.12			US-PATENT-CLASS-75-178R	NASA-CASE-MFS-22905-1
				US-PATENT-CLASS-123-119E			US-PATENT-3,943,763	US-PATENT-APPL-SN-518545
				US-PATENT-CLASS-123-120	N76-20480*	c 37	NASA-CASE-NPO-13059-1	US-PATENT-CLASS-188-1B
				US-PATENT-CLASS-123-121			NASA-CASE-NPO-13436-1	US-PATENT-CLASS-248-22
				US-PATENT-CLASS-123-89A			US-PATENT-APPL-SN-513690	US-PATENT-CLASS-248-358R
				US-PATENT-3,906,913			US-PATENT-CLASS-81-56	US-PATENT-3,952,980
N76-18458*	c 37			NASA-CASE-LEW-11860-1			US-PATENT-CLASS-81-57.31	N76-22296*
				US-PATENT-APPL-SN-527728			US-PATENT-3,942,398	c 20
				US-PATENT-CLASS-204-157.1H	N76-20958*	c 74	NASA-CASE-ARC-10631-1	NASA-CASE-MFS-19220-1
				US-PATENT-CLASS-250-527			US-PATENT-APPL-SN-514546	US-PATENT-APPL-SN-571821
				US-PATENT-3,939,048			US-PATENT-CLASS-250-343	US-PATENT-CLASS-254-124
N76-18459*	c 37			NASA-CASE-GSC-11551-1			US-PATENT-CLASS-250-573	US-PATENT-CLASS-254-93R
				US-PATENT-APPL-SN-440917			US-PATENT-3,943,368	US-PATENT-CLASS-89-1.801
				US-PATENT-CLASS-308-10	N76-20994*	c 76	NASA-CASE-NPO-13443-1	US-PATENT-3,952,998
				US-PATENT-3,937,533			US-PATENT-APPL-SN-522551	N76-22309*
N76-18641*	c 44			NASA-CASE-NPO-13237-1			US-PATENT-CLASS-324-158D	c 24
				US-PATENT-APPL-SN-378127			US-PATENT-CLASS-324-158R	NASA-CASE-LEW-11930-1
				US-PATENT-CLASS-136-83R			US-PATENT-CLASS-324-158T	US-PATENT-APPL-SN-513611
				US-PATENT-CLASS-136-86S			US-PATENT-CLASS-324-60C	US-PATENT-CLASS-252-12
				US-PATENT-3,894,887	N76-21250*	c 17	US-PATENT-3,943,442	US-PATENT-3,953,343
N76-18642*	c 44			NASA-CASE-NPO-13464-1			NASA-CASE-MSC-12593-1	N76-22323*
				US-PATENT-APPL-SN-428444			US-PATENT-APPL-SN-419747	c 25
				US-PATENT-CLASS-123-3			US-PATENT-CLASS-325-14	NASA-CASE-ARC-10760-1
				US-PATENT-CLASS-23-281			US-PATENT-CLASS-343-100SA	US-PATENT-APPL-SN-526438
				US-PATENT-CLASS-423-650			US-PATENT-CLASS-343-100ST	US-PATENT-CLASS-250-343
				US-PATENT-CLASS-48-116			US-PATENT-CLASS-343-112TC	US-PATENT-CLASS-250-344
				US-PATENT-CLASS-48-117			US-PATENT-3,949,400	US-PATENT-CLASS-250-432R
				US-PATENT-CLASS-48-63	N76-21275*	c 20	NASA-CASE-MFS-21311-1	US-PATENT-3,953,734
				US-PATENT-CLASS-48-75			US-PATENT-APPL-SN-493359	N76-22376*
				US-PATENT-CLASS-48-95			US-PATENT-CLASS-244-3.22	c 27
				US-PATENT-3,920,416			US-PATENT-3,948,470	NASA-CASE-ARC-10721-1
N76-18643*	c 44			NASA-CASE-NPO-11961-1	N76-21276*	c 20	NASA-CASE-LEW-11876-1	US-PATENT-APPL-SN-427775
				US-PATENT-APPL-SN-378126			US-PATENT-APPL-SN-542157	US-PATENT-CLASS-264-60
				US-PATENT-CLASS-136-30			US-PATENT-CLASS-29-25.18	US-PATENT-CLASS-264-63
				US-PATENT-CLASS-136-6LF			US-PATENT-3,947,933	US-PATENT-CLASS-264-66
				US-PATENT-CLASS-320-21	N76-21365*	c 32	NASA-CASE-NPO-13568-1	US-PATENT-3,952,083
				US-PATENT-CLASS-320-22			US-PATENT-APPL-SN-534265	N76-22377*
				US-PATENT-3,912,999			US-PATENT-CLASS-343-761	c 27
N76-18800*	c 60			NASA-CASE-NPO-13067-1			US-PATENT-CLASS-343-781	NASA-CASE-MSC-14270-1
				US-PATENT-APPL-SN-274348			US-PATENT-CLASS-343-786	US-PATENT-APPL-SN-482104
				US-PATENT-CLASS-340-172.5			US-PATENT-3,949,404	US-PATENT-CLASS-106-54
				US-PATENT-3,829,839	N76-21366*	c 32	NASA-CASE-MFS-22729-1	US-PATENT-CLASS-427-376
N76-18913*	c 74			NASA-CASE-GSC-11877-1			US-PATENT-APPL-SN-533608	US-PATENT-CLASS-427-379
				US-PATENT-APPL-SN-482953			US-PATENT-CLASS-235-156	US-PATENT-CLASS-427-380
				US-PATENT-CLASS-235-184			US-PATENT-CLASS-325-42	US-PATENT-CLASS-427-402
				US-PATENT-CLASS-250-199			US-PATENT-CLASS-333-18	US-PATENT-CLASS-428-332
				US-PATENT-3,937,945			US-PATENT-3,949,206	US-PATENT-CLASS-428-428
N76-19338*	c 33			NASA-CASE-NPO-13519-1	N76-21390*	c 33	NASA-CASE-ARC-10711-2	US-PATENT-CLASS-428-450
				US-PATENT-APPL-SN-536761			US-PATENT-APPL-SN-493363	US-PATENT-CLASS-428-538
				US-PATENT-CLASS-128-2S			US-PATENT-APPL-SN-596788	US-PATENT-CLASS-428-920
				US-PATENT-CLASS-33-155R			US-PATENT-CLASS-317-246	US-PATENT-3,953,646
				US-PATENT-CLASS-33-174D			US-PATENT-CLASS-73-398C	N76-22509*
				US-PATENT-CLASS-73-88.5SD			US-PATENT-3,948,102	c 35
				US-PATENT-3,937,212			NASA-CASE-LAR-11465-1	NASA-CASE-LAR-11434-1
N76-19339*	c 33			NASA-CASE-ARC-10810-1			US-PATENT-APPL-SN-502137	US-PATENT-APPL-SN-464722
				US-PATENT-APPL-SN-489009			US-PATENT-CLASS-156-286	US-PATENT-CLASS-209-127R
				US-PATENT-CLASS-204-195R			US-PATENT-CLASS-156-382	US-PATENT-CLASS-317-246
				US-PATENT-CLASS-215-247			US-PATENT-CLASS-156-556	US-PATENT-CLASS-324-61R
				US-PATENT-CLASS-324-30B			US-PATENT-CLASS-248-362	US-PATENT-CLASS-324-71CP
				US-PATENT-3,938,035			US-PATENT-CLASS-248-363	US-PATENT-3,953,792
					N76-21554*	c 37	NASA-CASE-LAR-11465-1	N76-22540*
							US-PATENT-APPL-SN-502137	c 37
							US-PATENT-CLASS-156-286	NASA-CASE-MFS-22636-1
							US-PATENT-CLASS-156-382	US-PATENT-APPL-SN-536762
							US-PATENT-CLASS-156-556	US-PATENT-CLASS-114-16.6
							US-PATENT-CLASS-248-362	US-PATENT-CLASS-244-137P
							US-PATENT-CLASS-248-363	US-PATENT-CLASS-244-158
							US-PATENT-CLASS-269-21	US-PATENT-CLASS-244-161
								US-PATENT-3,952,976
					N76-21930*	c 33	NASA-CASE-ARC-10711-2	N76-22541*
							US-PATENT-APPL-SN-493363	c 37
							US-PATENT-APPL-SN-596788	NASA-CASE-LEW-11676-1
							US-PATENT-CLASS-317-246	US-PATENT-APPL-SN-551184
							US-PATENT-CLASS-73-398C	US-PATENT-CLASS-277-4
							US-PATENT-3,948,102	US-PATENT-CLASS-277-41
							NASA-CASE-LAR-11465-1	US-PATENT-CLASS-277-74
							US-PATENT-APPL-SN-502137	US-PATENT-CLASS-277-93R
							US-PATENT-CLASS-156-286	US-PATENT-3,953,038
							US-PATENT-CLASS-156-382	N76-22657*
							US-PATENT-CLASS-156-556	c 44
							US-PATENT-CLASS-248-362	NASA-CASE-MFS-22743-1
							US-PATENT-CLASS-248-363	US-PATENT-APPL-SN-518684
							US-PATENT-CLASS-269-21	US-PATENT-CLASS-126-271
								US-PATENT-3,951,129
								N76-22914*
								c 54
								NASA-CASE-GSC-12082-1
								US-PATENT-APPL-SN-676958
								N76-22993*
								c 74
								NASA-CASE-ARC-10932-1
								US-PATENT-APPL-SN-681001

N76-23273*	c 09	NASA-CASE-MFS-23099-1 US-PATENT-APPL-SN-607969 US-PATENT-CLASS-73-147 US-PATENT-CLASS-3,952,590	N76-25049*	c 76	NASA-CASE-LEW-12094-1 US-PATENT-APPL-SN-508784 US-PATENT-CLASS-148-175 US-PATENT-CLASS-156-610 US-PATENT-CLASS-156-612 US-PATENT-CLASS-156-613 US-PATENT-CLASS-252-62.3 US-PATENT-CLASS-423-345 US-PATENT-CLASS-423-346 US-PATENT-CLASS-3,956,032	N76-29347*	c 17	NASA-CASE-ARC-10849-1 US-PATENT-APPL-SN-563049 US-PATENT-CLASS-340-189M US-PATENT-CLASS-340-206 US-PATENT-CLASS-73-493 US-PATENT-CLASS-73-517R US-PATENT-CLASS-3,972,038
N76-23426*	c 27	NASA-CASE-MSC-14270-2 US-PATENT-APPL-SN-482105 US-PATENT-CLASS-106-54 US-PATENT-CLASS-427-376 US-PATENT-CLASS-427-379 US-PATENT-CLASS-427-380 US-PATENT-CLASS-427-402 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-428 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-538 US-PATENT-CLASS-428-920 US-PATENT-CLASS-3,955,034	N76-26175*	c 04	NASA-CASE-MFS-23551-1 US-PATENT-APPL-SN-114772 US-PATENT-CLASS-244-79 US-PATENT-CLASS-74-5.34 US-PATENT-CLASS-3,739,646	N76-29379*	c 25	NASA-CASE-LEW-11390-3 US-PATENT-APPL-SN-247434 US-PATENT-APPL-SN-380046 US-PATENT-CLASS-176-11 US-PATENT-CLASS-176-14 US-PATENT-CLASS-176-16 US-PATENT-CLASS-250-400 US-PATENT-CLASS-250-429 US-PATENT-CLASS-250-492R US-PATENT-CLASS-3,971,697
N76-23570*	c 37	NASA-CASE-LEW-11169-1 US-PATENT-APPL-SN-446568 US-PATENT-CLASS-164-132 US-PATENT-CLASS-3,957,104	N76-27232*	c 07	NASA-CASE-LAR-11476-1 US-PATENT-APPL-SN-592159 US-PATENT-CLASS-73-557 US-PATENT-CLASS-3,964,319	N76-29551*	c 35	NASA-CASE-LAR-10907-1 US-PATENT-APPL-SN-559845 US-PATENT-CLASS-250-340 US-PATENT-CLASS-250-353 US-PATENT-CLASS-3,971,940
N76-23675*	c 44	NASA-CASE-MFS-21628-2 US-PATENT-APPL-SN-421702 US-PATENT-APPL-SN-561020 US-PATENT-CLASS-126-270 US-PATENT-CLASS-165-133 US-PATENT-CLASS-3,957,030	N76-27383*	c 25	NASA-CASE-LEW-11390-2 US-PATENT-APPL-SN-247434 US-PATENT-APPL-SN-340863 US-PATENT-CLASS-176-11 US-PATENT-CLASS-176-16 US-PATENT-CLASS-423-249 US-PATENT-CLASS-3,966,547	N76-29552*	c 35	NASA-CASE-MSC-12617-1 US-PATENT-APPL-SN-513576 US-PATENT-CLASS-235-61NV US-PATENT-CLASS-235-78M US-PATENT-CLASS-235-88M US-PATENT-CLASS-3,971,915
N76-23850*	c 60	NASA-CASE-MSC-14082-1 US-PATENT-APPL-SN-315070 US-PATENT-CLASS-340-347DD US-PATENT-CLASS-340-347P US-PATENT-CLASS-3,958,238	N76-27472*	c 33	NASA-CASE-GSC-11924-1 US-PATENT-APPL-SN-582318 US-PATENT-CLASS-343-775 US-PATENT-CLASS-343-759 US-PATENT-CLASS-343-854 US-PATENT-CLASS-3,965,475	N76-29575*	c 36	NASA-CASE-NPO-13346-1 US-PATENT-APPL-SN-533556 US-PATENT-CLASS-330-4.3 US-PATENT-CLASS-331-94.5C US-PATENT-CLASS-3,972,008
N76-24280*	c 09	NASA-CASE-ARC-10808-1 US-PATENT-APPL-SN-505881 US-PATENT-CLASS-178-DIG.35 US-PATENT-CLASS-178-7.89 US-PATENT-CLASS-35-12N US-PATENT-CLASS-3,956,833	N76-27473*	c 33	NASA-CASE-HQN-10876-1 US-PATENT-APPL-SN-555336 US-PATENT-CLASS-250-336 US-PATENT-CLASS-250-372 US-PATENT-CLASS-3,965,354	N76-29588*	c 37	NASA-CASE-LEW-11949-1 US-PATENT-APPL-SN-590182 US-PATENT-CLASS-308-160 US-PATENT-CLASS-308-163 US-PATENT-CLASS-308-170 US-PATENT-CLASS-3,971,602
N76-24363*	c 24	NASA-CASE-GSC-11786-1 US-PATENT-APPL-SN-401919 US-PATENT-CLASS-106-306 US-PATENT-CLASS-250-372 US-PATENT-CLASS-252-300 US-PATENT-CLASS-350-1 US-PATENT-CLASS-3,957,675	N76-27515*	c 34	NASA-CASE-NPO-13391-1 US-PATENT-APPL-SN-446567 US-PATENT-CLASS-165-105 US-PATENT-CLASS-29-182 US-PATENT-CLASS-29-193 US-PATENT-CLASS-55-523 US-PATENT-CLASS-55-526 US-PATENT-CLASS-75-225 US-PATENT-CLASS-3,964,902	N76-29590*	c 37	NASA-CASE-NPO-13613-1 US-PATENT-APPL-SN-574208 US-PATENT-CLASS-62-6 US-PATENT-CLASS-3,971,230
N76-24405*	c 27	NASA-CASE-MSC-14331-1 US-PATENT-APPL-SN-374421 US-PATENT-CLASS-106-15FP US-PATENT-CLASS-260-DIG.24 US-PATENT-CLASS-260-33.8F US-PATENT-CLASS-260-45.7 US-PATENT-CLASS-260-92.1 US-PATENT-CLASS-526-1 US-PATENT-CLASS-526-255 US-PATENT-CLASS-3,956,233	N76-27517*	c 34	NASA-CASE-ARC-10755-2 US-PATENT-APPL-SN-424013 US-PATENT-APPL-SN-545284 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-194R US-PATENT-CLASS-3,964,306	N76-29699*	c 44	NASA-CASE-HQN-10862-1 US-PATENT-APPL-SN-604374 US-PATENT-CLASS-136-143 US-PATENT-CLASS-136-30 US-PATENT-CLASS-3,972,727
N76-24523*	c 35	NASA-CASE-LAR-11500-1 US-PATENT-APPL-SN-534266 US-PATENT-CLASS-73-1B US-PATENT-CLASS-73-15.6 US-PATENT-CLASS-3,956,919	N76-27567*	c 37	NASA-CASE-LAR-11709-1 US-PATENT-APPL-SN-548468 US-PATENT-CLASS-339-17M US-PATENT-CLASS-339-18C US-PATENT-CLASS-3,964,813	N76-29700*	c 44	NASA-CASE-NPO-13342-2 US-PATENT-APPL-SN-390049 US-PATENT-APPL-SN-548559 US-PATENT-CLASS-123-1A US-PATENT-CLASS-123-3 US-PATENT-CLASS-23-281 US-PATENT-CLASS-423-650 US-PATENT-CLASS-48-215 US-PATENT-CLASS-48-95 US-PATENT-CLASS-3,955,941
N76-24524*	c 35	NASA-CASE-NPO-13462-1 US-PATENT-APPL-SN-545282 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-204 US-PATENT-CLASS-3,956,932	N76-27568*	c 37	NASA-CASE-LAR-11726-1 US-PATENT-APPL-SN-538047 US-PATENT-CLASS-219-118 US-PATENT-CLASS-219-92 US-PATENT-CLASS-3,967,091	N76-29701*	c 44	NASA-CASE-NPO-13567-1 US-PATENT-APPL-SN-566493 US-PATENT-CLASS-417-141 US-PATENT-CLASS-417-207 US-PATENT-CLASS-417-209 US-PATENT-CLASS-417-379 US-PATENT-CLASS-60-517 US-PATENT-CLASS-62-6 US-PATENT-CLASS-3,972,651
N76-24525*	c 35	NASA-CASE-ARC-10816-1 US-PATENT-APPL-SN-552454 US-PATENT-CLASS-128-DIG.4 US-PATENT-CLASS-128-2.05V US-PATENT-CLASS-128-2.1E US-PATENT-CLASS-128-2.1Z US-PATENT-CLASS-3,957,037	N76-27664*	c 44	NASA-CASE-MFS-23059-1 US-PATENT-APPL-SN-537024 US-PATENT-CLASS-136-86A US-PATENT-CLASS-3,964,928	N76-29704*	c 44	NASA-CASE-NPO-13464-2 US-PATENT-APPL-SN-428444 US-PATENT-APPL-SN-553687 US-PATENT-CLASS-252-373 US-PATENT-CLASS-42-215 US-PATENT-CLASS-423-650 US-PATENT-CLASS-431-163 US-PATENT-CLASS-431-210 US-PATENT-CLASS-431-4 US-PATENT-CLASS-48-197R US-PATENT-CLASS-3,971,847
N76-24553*	c 36	NASA-CASE-NPO-13531-1 US-PATENT-APPL-SN-531565 US-PATENT-CLASS-331-94.5C US-PATENT-CLASS-350-96WG US-PATENT-CLASS-3,956,188	N76-28563*	c 38	NASA-CASE-NPO-12142-1 US-PATENT-APPL-SN-637249 US-PATENT-CLASS-73-88.5 US-PATENT-CLASS-3,545,262	N76-29891*	c 51	NASA-CASE-GSC-11917-2 US-PATENT-APPL-SN-475337 US-PATENT-APPL-SN-555641 US-PATENT-CLASS-195-103.5R US-PATENT-CLASS-3,971,703
N76-24575*	c 37	NASA-CASE-LAR-10073-1 US-PATENT-APPL-SN-436317 US-PATENT-CLASS-156-242 US-PATENT-CLASS-156-286 US-PATENT-CLASS-264-102 US-PATENT-CLASS-264-267 US-PATENT-CLASS-428-117 US-PATENT-CLASS-3,956,050	N76-28635*	c 44	NASA-CASE-GSC-12022-1 NASA-CASE-GSC-12023-1 US-PATENT-APPL-SN-576488 US-PATENT-CLASS-136-89 US-PATENT-CLASS-148-174 US-PATENT-CLASS-148-175 US-PATENT-CLASS-156-612 US-PATENT-CLASS-156-613 US-PATENT-CLASS-156-614 US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-59 US-PATENT-CLASS-427-113 US-PATENT-CLASS-427-248 US-PATENT-CLASS-427-249 US-PATENT-CLASS-427-250 US-PATENT-CLASS-427-86 US-PATENT-CLASS-3,961,997	N76-29894*	c 52	NASA-CASE-ARC-10583-1 US-PATENT-APPL-SN-301418 US-PATENT-CLASS-128-2.1A US-PATENT-CLASS-128-2.1H US-PATENT-CLASS-128-2P US-PATENT-CLASS-3,971,362
N76-24696*	c 44	NASA-CASE-MFS-22744-1 US-PATENT-APPL-SN-518544 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-350-293 US-PATENT-CLASS-350-299 US-PATENT-CLASS-3,958,553	N76-29217*	c 05	NASA-CASE-ARC-10470-3 US-PATENT-APPL-SN-206279 US-PATENT-APPL-SN-321180	N76-29895*	c 52	NASA-CASE-NPO-13644-1 US-PATENT-APPL-SN-574218 US-PATENT-CLASS-128-2.05R US-PATENT-CLASS-128-2S

US-PATENT-CLASS-338-6				US-PATENT-APPL-SN-537480				US-PATENT-CLASS-324-72			
US-PATENT-3,971,363				US-PATENT-CLASS-23-230R				US-PATENT-3,984,730			
N76-29896*	c 52	NASA-CASE-NPO-13643-1		US-PATENT-CLASS-23-232E				N77-10463*	c 34	NASA-CASE-MFS-22991-1	
US-PATENT-APPL-SN-578241				US-PATENT-CLASS-23-232R				US-PATENT-APPL-SN-521006			
US-PATENT-CLASS-128-2.05E				US-PATENT-3,977,831				US-PATENT-CLASS-165-164			
US-PATENT-CLASS-128-2.06E				N76-31946*	c 62	NASA-CASE-GSC-12115-1		US-PATENT-CLASS-165-170			
US-PATENT-CLASS-128-2S				US-PATENT-APPL-SN-262596				US-PATENT-3,983,933			
US-PATENT-CLASS-128-418				US-PATENT-CLASS-340-347SY				N77-10492*	c 35	NASA-CASE-NPO-13479-1	
US-PATENT-CLASS-128-419P				US-PATENT-3,976,997				US-PATENT-APPL-SN-500981			
US-PATENT-CLASS-73-398AR				N76-31998*	c 74	NASA-CASE-MSC-12640-1		US-PATENT-CLASS-250-290			
US-PATENT-3,971,364				US-PATENT-APPL-SN-591568				US-PATENT-CLASS-250-291			
N76-30053*	c 74	NASA-CASE-GSC-11782-1		US-PATENT-CLASS-350-162SF				US-PATENT-3,984,681			
US-PATENT-APPL-SN-463925				US-PATENT-3,977,771				N77-10493*	c 35	NASA-CASE-MFS-23178-1	
US-PATENT-CLASS-250-199				N76-32140*	c 03	NASA-CASE-MFS-16609-3		US-PATENT-APPL-SN-637247			
US-PATENT-3,971,930				US-PATENT-APPL-SN-307714				US-PATENT-CLASS-250-338			
N76-30131*	c 91	NASA-CASE-MSC-12423-1		US-PATENT-APPL-SN-511894				US-PATENT-CLASS-250-339			
US-PATENT-APPL-SN-448320				US-PATENT-APPL-SN-82279				US-PATENT-CLASS-250-347			
US-PATENT-CLASS-73-170R				US-PATENT-CLASS-325-114				US-PATENT-CLASS-356-106R			
US-PATENT-CLASS-73-425.2				US-PATENT-CLASS-325-115				US-PATENT-3,984,686			
US-PATENT-CLASS-73-432R				US-PATENT-CLASS-325-186				N77-10584*	c 43	NASA-CASE-MSC-14472-1	
US-PATENT-3,971,256				US-PATENT-CLASS-343-705				US-PATENT-APPL-SN-502138			
N76-30793*	c 52	US-PATENT-APPL-SN-452768		US-PATENT-3,978,410				US-PATENT-CLASS-235-181			
US-PATENT-CLASS-351-23				N76-32315*	c 27	NASA-CASE-ARC-10592-2		US-PATENT-CLASS-340-146.3P			
US-PATENT-CLASS-351-30				US-PATENT-APPL-SN-414043				US-PATENT-CLASS-340-146.3Q			
US-PATENT-CLASS-351-36				US-PATENT-CLASS-260-240G				US-PATENT-3,984,671			
N76-31365*	c 31	US-PATENT-RE-28,921		US-PATENT-CLASS-260-566B				N77-10635*	c 44	NASA-CASE-MFS-22458-1	
NASA-CASE-ARC-10445-1				US-PATENT-3,965,096				US-PATENT-APPL-SN-571458			
US-PATENT-APPL-SN-491418				N76-32457*	c 33	NASA-CASE-NPO-13553-1		US-PATENT-CLASS-136-89			
US-PATENT-CLASS-313-250				US-PATENT-APPL-SN-616333				US-PATENT-CLASS-29-572			
US-PATENT-CLASS-313-306				US-PATENT-CLASS-343-882				US-PATENT-3,984,256			
US-PATENT-CLASS-313-309				US-PATENT-CLASS-343-915				N77-10636*	c 44	NASA-CASE-NPO-13560-1	
US-PATENT-CLASS-313-338				US-PATENT-3,978,490				NASA-CASE-NPO-13561-1			
N76-31372*	c 32	US-PATENT-3,978,364		N76-33835* #	c 52	NASA-CASE-ARC-10994-1		US-PATENT-APPL-SN-487156			
NASA-CASE-NPO-13465-1				US-PATENT-APPL-SN-728369				US-PATENT-CLASS-123-3			
US-PATENT-APPL-SN-531575				N77-10001*	c 02	NASA-CASE-LAR-11645-1		US-PATENT-CLASS-23-281			
US-PATENT-CLASS-179-15A				US-PATENT-APPL-SN-473973				US-PATENT-CLASS-252-373			
N76-31409*	c 33	US-PATENT-3,978,287		US-PATENT-CLASS-244-113				US-PATENT-CLASS-423-650			
NASA-CASE-NPO-12134-1				US-PATENT-CLASS-244-130				US-PATENT-CLASS-431-11			
US-PATENT-APPL-SN-536785				US-PATENT-3,984,070				US-PATENT-CLASS-431-116			
US-PATENT-CLASS-313-94				N77-10071*	c 09	NASA-CASE-NPO-13528-1		US-PATENT-CLASS-431-162			
US-PATENT-CLASS-357-63				US-PATENT-APPL-SN-521620				US-PATENT-CLASS-431-170			
N76-31489*	c 35	US-PATENT-3,978,360		US-PATENT-CLASS-73-147				US-PATENT-CLASS-431-41			
NASA-CASE-GSC-11893-1				US-PATENT-3,983,749				US-PATENT-CLASS-48-116			
US-PATENT-APPL-SN-585420				N77-10112*	c 15	NASA-CASE-MFS-20855-1		US-PATENT-CLASS-48-117			
US-PATENT-CLASS-73-9				US-PATENT-APPL-SN-243374				US-PATENT-CLASS-48-197R			
N76-31490*	c 35	US-PATENT-3,977,231		US-PATENT-CLASS-244-1SD				US-PATENT-CLASS-48-212			
NASA-CASE-NPO-13604-1				US-PATENT-3,744,739				US-PATENT-CLASS-48-61			
US-PATENT-APPL-SN-574219				N77-10113*	c 15	NASA-CASE-MFS-22787-1		US-PATENT-3,982,910			
US-PATENT-CLASS-356-106S				US-PATENT-APPL-SN-511346				N77-10753*	c 47	NASA-CASE-MFS-23362-1	
US-PATENT-CLASS-356-114				US-PATENT-CLASS-244-169				US-PATENT-APPL-SN-637268			
US-PATENT-CLASS-356-209				US-PATENT-CLASS-244-171				US-PATENT-CLASS-250-338			
US-PATENT-CLASS-356-244				US-PATENT-CLASS-244-3.21				US-PATENT-CLASS-250-339			
N76-31512*	c 36	US-PATENT-3,977,787		US-PATENT-3,984,072				US-PATENT-CLASS-250-347			
NASA-CASE-NPO-13490-1				N77-10148*	c 20	NASA-CASE-LEW-12082-1		US-PATENT-CLASS-356-106R			
US-PATENT-APPL-SN-549418				US-PATENT-APPL-SN-612964				US-PATENT-3,984,685			
US-PATENT-CLASS-330-4				US-PATENT-CLASS-313-231.4				N77-10780*	c 52	NASA-CASE-ARC-10855-1	
US-PATENT-CLASS-331-94				US-PATENT-CLASS-313-240				US-PATENT-APPL-SN-617612			
N76-31524*	c 37	US-PATENT-3,978,417		US-PATENT-CLASS-313-361				US-PATENT-CLASS-128-2H			
NASA-CASE-NPO-13535-1				US-PATENT-CLASS-315-111.3				US-PATENT-CLASS-73-343R			
US-PATENT-APPL-SN-563050				US-PATENT-CLASS-60-202				US-PATENT-3,983,753			
US-PATENT-CLASS-264-129				US-PATENT-3,983,695				N77-10899*	c 74	NASA-CASE-MSC-19442-1	
US-PATENT-CLASS-264-161				N77-10213*	c 28	NASA-CASE-LAR-11995-1		US-PATENT-APPL-SN-558600			
US-PATENT-CLASS-264-219				US-PATENT-APPL-SN-238826				US-PATENT-CLASS-356-237			
US-PATENT-CLASS-264-304				US-PATENT-CLASS-102-99				US-PATENT-CLASS-356-239			
US-PATENT-CLASS-264-305				US-PATENT-CLASS-264-3R				US-PATENT-3,985,454			
US-PATENT-CLASS-264-308				US-PATENT-CLASS-86-1R				N77-11397*	c 37	NASA-CASE-LAR-11549-1	
US-PATENT-CLASS-264-310				US-PATENT-3,983,780				US-PATENT-APPL-SN-537979			
N76-31524*	c 37	US-PATENT-CLASS-264-318		N77-10229*	c 31	NASA-CASE-NPO-13459-1		US-PATENT-CLASS-219-118			
US-PATENT-CLASS-264-334				US-PATENT-APPL-SN-598967				US-PATENT-CLASS-219-92			
US-PATENT-CLASS-427-230				US-PATENT-CLASS-62-217				US-PATENT-3,988,561			
N76-31562*	c 39	US-PATENT-3,978,187		US-PATENT-CLASS-62-514JT				N77-12239*	c 32	NASA-CASE-MSC-12506-1	
NASA-CASE-MSC-19372-1				US-PATENT-3,983,714				US-PATENT-APPL-SN-545283			
US-PATENT-APPL-SN-517995				N77-10392*	c 32	NASA-CASE-LAR-11827-1		US-PATENT-CLASS-340-347DD			
US-PATENT-CLASS-182-178				US-PATENT-APPL-SN-412379				US-PATENT-3,988,729			
US-PATENT-CLASS-29-467				US-PATENT-APPL-SN-561764				N77-12240*	c 32	NASA-CASE-NPO-13543-1	
US-PATENT-CLASS-29-526				US-PATENT-CLASS-178-88				NASA-CASE-NPO-13545-1			
US-PATENT-CLASS-52-236				US-PATENT-CLASS-235-150.1				US-PATENT-APPL-SN-589173			
US-PATENT-CLASS-52-637				US-PATENT-CLASS-235-156				US-PATENT-CLASS-325-41			
US-PATENT-CLASS-52-648				US-PATENT-CLASS-325-323				US-PATENT-CLASS-340-146.1AL			
US-PATENT-CLASS-52-651				US-PATENT-CLASS-325-349				US-PATENT-CLASS-340-146.1AQ			
US-PATENT-CLASS-52-726				US-PATENT-CLASS-325-476				US-PATENT-CLASS-340-146.1AV			
US-PATENT-CLASS-52-745				US-PATENT-3,984,634				US-PATENT-3,988,677			
US-PATENT-CLASS-52-749				N77-10428*	c 33	NASA-CASE-NPO-13512-1		N77-12402*	c 37	NASA-CASE-MFS-23062-1	
N76-31666*	c 44	US-PATENT-3,977,147		US-PATENT-APPL-SN-533734				US-PATENT-APPL-SN-591569			
NASA-CASE-NPO-13087-2				US-PATENT-CLASS-321-19				US-PATENT-CLASS-60-527			
US-PATENT-APPL-SN-296622				US-PATENT-CLASS-321-2				US-PATENT-3,987,630			
US-PATENT-APPL-SN-462341				US-PATENT-CLASS-323-DIG.1				N77-12721*	c 60	NASA-CASE-NPO-13428-1	
US-PATENT-CLASS-136-206				US-PATENT-CLASS-323-17				NASA-CASE-NPO-13447-1			
US-PATENT-CLASS-136-89				US-PATENT-CLASS-323-22T				US-PATENT-APPL-SN-495022			
N76-31667*	c 44	US-PATENT-3,966,499		US-PATENT-CLASS-323-23				US-PATENT-CLASS-179-15BA			
NASA-CASE-MFS-23167-1				US-PATENT-3,984,799				US-PATENT-CLASS-328-111			
US-PATENT-APPL-SN-602618				N77-10429*	c 33	NASA-CASE-GSC-11963-1		US-PATENT-CLASS-340-172.5			
US-PATENT-CLASS-165-10				US-PATENT-APPL-SN-595197				US-PATENT-3,988,716			
US-PATENT-CLASS-60-659				US-PATENT-CLASS-244-1A				N77-13217*	c 27	NASA-CASE-NPO-13666-1	
N76-31714*	c 45	US-PATENT-3,977,197		US-PATENT-CLASS-244-42CG				US-PATENT-APPL-SN-633877			
NASA-CASE-LAR-11405-1				US-PATENT-CLASS-317-2D				US-PATENT-CLASS-29-182.5			

N77-13315*	c 33	US-PATENT-3,990,860	N77-14581*	c 44	US-PATENT-3,996,067	N77-18154*	c 07	US-PATENT-APPL-SN-565289
		NASA-CASE-NPO-11515-1			NASA-CASE-LEW-12220-1			US-PATENT-CLASS-235-92CA
		US-PATENT-APPL-SN-139596			US-PATENT-APPL-SN-606891			US-PATENT-CLASS-235-92CT
		US-PATENT-CLASS-307-233			US-PATENT-CLASS-320-2			US-PATENT-CLASS-235-92DN
		US-PATENT-CLASS-307-295			US-PATENT-CLASS-429-23			US-PATENT-CLASS-235-92R
N77-13418*	c 37	US-PATENT-CLASS-328-133	N77-14735*	c 52	US-PATENT-CLASS-429-34	N77-18307*	c 32	US-PATENT-4,001,552
		US-PATENT-3,750,035			US-PATENT-3,996,064			NASA-CASE-ARC-10761-1
		NASA-CASE-ARC-10905-1			US-PATENT-MFS-23225-1			US-PATENT-APPL-SN-612899
		US-PATENT-APPL-SN-618594			US-PATENT-APPL-SN-612965			US-PATENT-CLASS-137-15.1
		US-PATENT-CLASS-219-300			US-PATENT-CLASS-3-1.2			US-PATENT-CLASS-244-53B
N77-14025*	c 07	US-PATENT-CLASS-219-304	N77-14736*	c 52	US-PATENT-CLASS-3-14	N77-18382*	c 34	US-PATENT-4,007,891
		US-PATENT-CLASS-239-171			US-PATENT-3,995,324			NASA-CASE-MFS-23303-1
		US-PATENT-CLASS-252-359A			NASA-CASE-ARC-11007-1			US-PATENT-APPL-SN-676957
		US-PATENT-3,990,987			US-PATENT-APPL-SN-652948			US-PATENT-CLASS-333-70R
		NASA-CASE-LEW-12419-1			US-PATENT-CLASS-128-2H			US-PATENT-CLASS-333-75
N77-14292*	c 32	US-PATENT-APPL-SN-579375	N77-14737*	c 52	US-PATENT-CLASS-128-379	N77-18417*	c 35	US-PATENT-CLASS-333-76
		US-PATENT-CLASS-416-153			US-PATENT-CLASS-128-400			US-PATENT-CLASS-333-82B
		US-PATENT-CLASS-416-160			US-PATENT-CLASS-128-402			US-PATENT-4,007,434
		US-PATENT-CLASS-416-162			US-PATENT-3,995,621			NASA-CASE-LAR-10805-2
		US-PATENT-CLASS-416-165			NASA-CASE-MS-14276-1			US-PATENT-APPL-SN-428992
N77-14333*	c 33	US-PATENT-CLASS-416-167	N77-14738*	c 52	US-PATENT-APPL-SN-557430	N77-18891*	c 73	US-PATENT-APPL-SN-578240
		US-PATENT-CLASS-60-226R			US-PATENT-CLASS-250-363R			US-PATENT-CLASS-244-117A
		US-PATENT-3,994,128			US-PATENT-CLASS-250-444			US-PATENT-CLASS-427-160
		NASA-CASE-LAR-11607-1			US-PATENT-CLASS-250-498			US-PATENT-CLASS-427-322
		US-PATENT-APPL-SN-617895			US-PATENT-3,996,471			US-PATENT-CLASS-428-35
N77-14334*	c 33	US-PATENT-CLASS-325-145	N77-14751*	c 60	NASA-CASE-KSC-10849-1	N77-18893*	c 74	US-PATENT-CLASS-428-421
		US-PATENT-CLASS-332-22			US-PATENT-APPL-SN-613734			US-PATENT-CLASS-428-461
		US-PATENT-CLASS-332-23R			US-PATENT-CLASS-128-418			US-PATENT-CLASS-428-474
		US-PATENT-3,996,532			US-PATENT-CLASS-3-1.1			US-PATENT-4,008,348
		NASA-CASE-GSC-11789-1			US-PATENT-CLASS-339-252R			NASA-CASE-ARC-10898-1
N77-14335*	c 33	US-PATENT-APPL-SN-538982	N77-17029*	c 05	US-PATENT-3,995,644	N77-19056*	c 04	US-PATENT-APPL-SN-625732
		US-PATENT-CLASS-317-31			NASA-CASE-GSC-11839-1			US-PATENT-CLASS-73-12
		US-PATENT-CLASS-321-13			US-PATENT-APPL-SN-468614			US-PATENT-CLASS-73-432SD
		US-PATENT-3,996,506			US-PATENT-CLASS-235-152			US-PATENT-CLASS-73-71.6
		NASA-CASE-GSC-12018-1			US-PATENT-CLASS-250-227			US-PATENT-4,007,623
N77-14406*	c 35	US-PATENT-CLASS-329-122	N77-17143*	c 20	US-PATENT-CLASS-340-172.5	N77-19076*	c 09	NASA-CASE-NPO-13121-1
		US-PATENT-CLASS-329-124			US-PATENT-CLASS-350-96R			US-PATENT-APPL-SN-294727
		US-PATENT-CLASS-331-23			US-PATENT-3,996,455			US-PATENT-CLASS-310-4R
		US-PATENT-CLASS-331-36C			NASA-CASE-ARC-10807-1			US-PATENT-CLASS-313-311
		US-PATENT-CLASS-332-30V			US-PATENT-APPL-SN-513612			US-PATENT-CLASS-346R
N77-14407*	c 35	US-PATENT-3,997,848	N77-17161*	c 23	US-PATENT-CLASS-416-104	N77-19170*	c 24	US-PATENT-4,008,407
		NASA-CASE-MFS-22560-1			US-PATENT-CLASS-416-138			NASA-CASE-MS-14683-1
		US-PATENT-APPL-SN-589233			US-PATENT-CLASS-416-141			US-PATENT-APPL-SN-612967
		US-PATENT-CLASS-250-214A			US-PATENT-3,999,886			US-PATENT-CLASS-358-44
		US-PATENT-CLASS-330-14			NASA-CASE-LEW-12760-1			US-PATENT-4,004,292
N77-14408*	c 35	US-PATENT-CLASS-330-28	N77-17351*	c 33	US-PATENT-APPL-SN-569925	N77-19171*	c 24	NASA-CASE-LAR-11387-2
		US-PATENT-CLASS-330-59			US-PATENT-CLASS-60-226A			US-PATENT-APPL-SN-531647
		US-PATENT-3,996,462			US-PATENT-CLASS-60-228			US-PATENT-APPL-SN-623156
		NASA-CASE-NPO-13663-1			US-PATENT-4,005,574			US-PATENT-CLASS-33-356
		US-PATENT-APPL-SN-634205			NASA-CASE-XLA-01349			US-PATENT-4,006,631
N77-14409*	c 35	US-PATENT-CLASS-250-289	N77-17354*	c 33	US-PATENT-APPL-SN-256493	N77-19353*	c 34	NASA-CASE-ARC-10979-1
		US-PATENT-CLASS-250-298			US-PATENT-APPL-SN-54552			US-PATENT-APPL-SN-608483
		US-PATENT-3,996,464			US-PATENT-CLASS-102-49.3			US-PATENT-CLASS-124-6
		NASA-CASE-LAR-11648-1			US-PATENT-CLASS-264-3R			US-PATENT-CLASS-244-63
		US-PATENT-APPL-SN-645571			US-PATENT-CLASS-86-1R			US-PATENT-3,989,206
N77-14411*	c 35	US-PATENT-CLASS-73-133R	N77-17426*	c 35	US-PATENT-CLASS-86-20R	N77-19416*	c 36	US-PATENT-CLASS-244-63
		US-PATENT-3,995,476			US-PATENT-4,000,682			US-PATENT-3,989,206
		NASA-CASE-ARC-10448-3			NASA-CASE-MS-14428-1			NASA-CASE-LEW-12550-1
		US-PATENT-APPL-SN-221670			US-PATENT-APPL-SN-450504			US-PATENT-APPL-SN-596905
		US-PATENT-APPL-SN-318848			US-PATENT-CLASS-23-230B			US-PATENT-CLASS-416-224
N77-14477*	c 37	US-PATENT-CLASS-250-396	N77-17464*	c 37	US-PATENT-CLASS-23-230M	N77-19457*	c 37	US-PATENT-CLASS-416-230
		US-PATENT-3,996,468			US-PATENT-CLASS-23-230R			US-PATENT-4,006,999
		NASA-CASE-NPO-13540-1			US-PATENT-CLASS-23-231			NASA-CASE-LEW-12619-1
		US-PATENT-APPL-SN-526450			US-PATENT-CLASS-23-232C			US-PATENT-APPL-SN-462424
		US-PATENT-CLASS-136-232			US-PATENT-CLASS-23-232R			US-PATENT-CLASS-204-16
N77-14478*	c 37	US-PATENT-CLASS-136-233	N77-17495*	c 38	US-PATENT-CLASS-23-254R	N77-19458*	c 37	US-PATENT-CLASS-204-40
		US-PATENT-3,996,070			US-PATENT-CLASS-55-197			US-PATENT-CLASS-204-9
		NASA-CASE-NPO-13683-1			US-PATENT-CLASS-55-67			US-PATENT-CLASS-29-527.2
		US-PATENT-APPL-SN-599284			US-PATENT-CLASS-55-74			US-PATENT-3,989,602
		US-PATENT-CLASS-250-343			US-PATENT-CLASS-73-23.1			NASA-CASE-ARC-10912-1
N77-14479*	c 37	US-PATENT-CLASS-356-201	N77-17355*	c 33	US-PATENT-CLASS-73-61.1C	N77-19385*	c 35	US-PATENT-CLASS-62-100
		US-PATENT-CLASS-356-204			US-PATENT-4,003,257			US-PATENT-CLASS-62-121
		US-PATENT-CLASS-356-97			NASA-CASE-MFS-23181-1			US-PATENT-CLASS-62-269
		US-PATENT-3,995,960			US-PATENT-APPL-SN-566495			US-PATENT-CLASS-62-315
		NASA-CASE-FRC-10081-1			US-PATENT-CLASS-331-114			US-PATENT-4,007,601
N77-14580*	c 44	US-PATENT-APPL-SN-598504	N77-17495*	c 38	US-PATENT-CLASS-331-177V	N77-19458*	c 37	NASA-CASE-MS-14653-1
		US-PATENT-CLASS-280-432			US-PATENT-CLASS-332-18			US-PATENT-APPL-SN-521816
		US-PATENT-3,995,877			US-PATENT-CLASS-332-30V			US-PATENT-CLASS-177-1
		NASA-CASE-LAR-11658-1			US-PATENT-4,003,004			US-PATENT-CLASS-177-20R
		US-PATENT-APPL-SN-625759			NASA-CASE-LEW-11881-1			US-PATENT-CLASS-73-432R
N77-14581*	c 44	US-PATENT-CLASS-83-451	N77-17495*	c 38	US-PATENT-APPL-SN-598968	N77-19458*	c 37	US-PATENT-3,988,933
		US-PATENT-CLASS-83-467R			US-PATENT-CLASS-307-229			NASA-CASE-XNP-04167-3
		US-PATENT-3,995,522			US-PATENT-CLASS-307-230			US-PATENT-APPL-SN-170544
		NASA-CASE-GSC-11960-1			US-PATENT-CLASS-328-161			US-PATENT-APPL-SN-479357
		US-PATENT-APPL-SN-629456			US-PATENT-4,001,602			US-PATENT-CLASS-331-94.5D
N77-14582*	c 44	US-PATENT-CLASS-242-187	N77-17495*	c 38	NASA-CASE-MFS-22671-2	N77-19458*	c 37	US-PATENT-CLASS-331-94.5E
		US-PATENT-CLASS-242-193			US-PATENT-APPL-SN-419831			US-PATENT-CLASS-331-94.5PE
		US-PATENT-CLASS-242-204			US-PATENT-APPL-SN-561956			US-PATENT-4,007,430
		US-PATENT-CLASS-242-210			US-PATENT-CLASS-360-25			NASA-CASE-MFS-15218-1
		US-PATENT-CLASS-242-57			US-PATENT-CLASS-360-31			US-PATENT-APPL-SN-387094
N77-14583*	c 44	US-PATENT-3,995,789	N77-17464*	c 37	US-PATENT-4,003,084	N77-19458*	c 37	US-PATENT-CLASS-197-188
		NASA-CASE-LEW-11496-1			NASA-CASE-GSC-11978-1			US-PATENT-CLASS-197-190
		US-PATENT-APPL-SN-645508			US-PATENT-APPL-SN-593142			US-PATENT-3,989,136
		US-PATENT-CLASS-136-89			US-PATENT-CLASS-308-10			NASA-CASE-GSC-11883-1
		US-PATENT-CLASS-204-192			US-PATENT-4,000,929			NASA-CASE-GSC-11974-1
N77-14584*	c 44	US-PATENT-CLASS-204-192	N77-17495*	c 38	NASA-CASE-GSC-11902-1	N77-19458*	c 37	NASA-CASE-GSC-11975-1
		US-PATENT-CLASS-204-192			US-PATENT-CLASS-204-192			NASA-CASE-GSC-11975-1
		US-PATENT-CLASS-204-192			US-PATENT-CLASS-204-192			NASA-CASE-GSC-11975-1
		US-PATENT-CLASS-204-192			US-P			

		US-PATENT-APPL-SN-596787			US-PATENT-APPL-SN-841278			US-PATENT-CLASS-60-39,28R
		US-PATENT-CLASS-310-4A			US-PATENT-CLASS-313-175			US-PATENT-CLASS-60-39,66
		US-PATENT-CLASS-337-334			US-PATENT-CLASS-313-180			US-PATENT-4,020,632
		US-PATENT-CLASS-340-224			US-PATENT-CLASS-313-184	N77-23482*	c 37	NASA-CASE-LAR-11563-1
		US-PATENT-CLASS-60-527			US-PATENT-CLASS-315-108			US-PATENT-APPL-SN-672815
		US-PATENT-CLASS-75-122.7			US-PATENT-CLASS-315-110			US-PATENT-CLASS-29-DIG.35
		US-PATENT-CLASS-75-170			US-PATENT-3,621,330			US-PATENT-CLASS-29-447
		US-PATENT-4,010,455	N77-21392*	c 35	NASA-CASE-NPO-10711-1			US-PATENT-CLASS-403-273
N77-19571*	c 44	NASA-CASE-LEW-11549-1			US-PATENT-APPL-SN-844315			US-PATENT-CLASS-53-9
		US-PATENT-APPL-SN-510677			US-PATENT-CLASS-179-100.2C			US-PATENT-4,017,959
		US-PATENT-CLASS-136-89			US-PATENT-3,697,705	N77-23483*	c 37	NASA-CASE-MFS-23088-1
		US-PATENT-3,989,541			NASA-CASE-NPO-10619-1			US-PATENT-APPL-SN-602617
N77-19760*	c 60	NASA-CASE-ARC-10899-1	N77-21393*	c 35	US-PATENT-APPL-SN-757017			US-PATENT-CLASS-213-81
		US-PATENT-APPL-SN-576774			US-PATENT-CLASS-338-25			US-PATENT-CLASS-214-1CM
		US-PATENT-CLASS-178-69.5R			US-PATENT-3,555,483			US-PATENT-CLASS-244-161
		US-PATENT-CLASS-179-15BS	N77-21844*	c 54	NASA-CASE-MFS-23074-1			US-PATENT-4,018,409
		US-PATENT-CLASS-340-172.5			US-PATENT-APPL-SN-623188	N77-24328*	c 32	NASA-CASE-ARC-10984-0
		US-PATENT-3,990,049			US-PATENT-CLASS-188-291			US-PATENT-APPL-SN-690815
N77-20162*	c 20	NASA-CASE-LEW-12048-1			US-PATENT-CLASS-254-158			US-PATENT-CLASS-358-133
		US-PATENT-APPL-SN-665033			US-PATENT-4,018,423			US-PATENT-CLASS-358-138
		US-PATENT-CLASS-313-230	N77-21941*	c 74	NASA-CASE-NPO-11429-1			US-PATENT-4,025,950
		US-PATENT-CLASS-313-231.3			US-PATENT-APPL-SN-95189	N77-24331*	c 32	NASA-CASE-MSC-14840-1
		US-PATENT-CLASS-313-360			US-PATENT-CLASS-240-41.35R			US-PATENT-APPL-SN-692414
		US-PATENT-CLASS-315-111.3			US-PATENT-CLASS-240-41R			US-PATENT-CLASS-178-88
		US-PATENT-CLASS-315-111.6			US-PATENT-CLASS-240-46.13			US-PATENT-CLASS-325-346
		US-PATENT-CLASS-60-202			US-PATENT-CLASS-356-236			US-PATENT-CLASS-329-104
		US-PATENT-4,011,719			US-PATENT-3,711,701			US-PATENT-CLASS-329-122
N77-20201*	c 26	NASA-CASE-LEW-12245-1	N77-22386*	c 33	NASA-CASE-NPO-10870-1			US-PATENT-4,027,265
		US-PATENT-APPL-SN-584094			NASA-CASE-NPO-11191-1	N77-24375*	c 33	NASA-CASE-MSC-12709-1
		US-PATENT-CLASS-148-12.7N			NASA-CASE-NPO-11403-1			US-PATENT-APPL-SN-630583
		US-PATENT-CLASS-148-162			US-PATENT-APPL-SN-108810			US-PATENT-CLASS-307-225R
		US-PATENT-CLASS-148-2			US-PATENT-CLASS-313-146			US-PATENT-CLASS-328-38
		US-PATENT-CLASS-148-20.3			US-PATENT-CLASS-313-182			US-PATENT-CLASS-328-39
		US-PATENT-CLASS-148-32.5			US-PATENT-CLASS-313-60			US-PATENT-CLASS-328-4-8
		US-PATENT-CLASS-75-170			US-PATENT-3,736,453			US-PATENT-CLASS-328-63
		US-PATENT-4,012,237	N77-22449*	c 35	NASA-CASE-LAR-11825-1			US-PATENT-4,025,866
N77-20289*	c 32	NASA-CASE-NPO-13753-1			US-PATENT-APPL-SN-632112	N77-24423*	c 34	NASA-CASE-LAR-12045-1
		US-PATENT-APPL-SN-658449			US-PATENT-CLASS-73-88R			US-PATENT-APPL-SN-682416
		US-PATENT-CLASS-325-4			US-PATENT-4,018,085			US-PATENT-CLASS-259/4R
		US-PATENT-CLASS-343-100ST	N77-22450*	c 35	NASA-CASE-MFS-23281-1			US-PATENT-CLASS-261-DIG.75
		US-PATENT-CLASS-343-6.8R			US-PATENT-APPL-SN-657995			US-PATENT-CLASS-261-123
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-73-15.6			US-PATENT-4,026,527
		US-PATENT-4,012,696			US-PATENT-CLASS-73-95	N77-24454*	c 35	NASA-CASE-ARC-10900-1
N77-20399*	c 35	NASA-CASE-ARC-10716-1			US-PATENT-4,018,080			US-PATENT-APPL-SN-630579
		US-PATENT-APPL-SN-403695	N77-22479*	c 37	NASA-CASE-NPO-10316-1			US-PATENT-CLASS-338-229
		US-PATENT-CLASS-235-150.2			US-PATENT-APPL-SN-703107			US-PATENT-CLASS-338-28
		US-PATENT-CLASS-235-150.25			US-PATENT-CLASS-60-53			US-PATENT-4,025,891
		US-PATENT-CLASS-244-165			US-PATENT-3,478,514	N77-24455*	c 35	NASA-CASE-GSC-12077-1
		US-PATENT-CLASS-244-171			NASA-CASE-NPO-13058-1			US-PATENT-APPL-SN-635519
		US-PATENT-CLASS-244-3.21			NASA-CASE-NPO-13096-1			US-PATENT-CLASS-65-108
		US-PATENT-4,012,018			US-PATENT-APPL-SN-403154			US-PATENT-CLASS-65-59A
N77-20400*	c 35	NASA-CASE-ARC-10911-1			US-PATENT-CLASS-214-16.1CB			US-PATENT-CLASS-6554
		US-PATENT-APPL-SN-610802			US-PATENT-3,896,955			US-PATENT-CLASS-6564
		US-PATENT-CLASS-338-28	N77-22482*	c 37	NASA-CASE-MSC-19536-1			US-PATENT-4,025,327
		US-PATENT-CLASS-73-204			US-PATENT-APPL-SN-658450	N77-25499*	c 36	NASA-CASE-GSC-11571-1
		US-PATENT-4,011,756			US-PATENT-CLASS-74-96			US-PATENT-APPL-SN-646704
N77-20401*	c 35	NASA-CASE-MFS-23267-1			US-PATENT-4,018,092			US-PATENT-CLASS-331-94.5S
		US-PATENT-APPL-SN-653422	N77-22606*	c 44	NASA-CASE-LEW-12364-1			US-PATENT-4,025,875
		US-PATENT-CLASS-126-270			US-PATENT-APPL-SN-707124	N77-25501*	c 36	NASA-CASE-ARC-10970-1
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-253-317			US-PATENT-APPL-SN-691046
		US-PATENT-CLASS-250-203R			US-PATENT-CLASS-429-105			US-PATENT-CLASS-250-574
		US-PATENT-4,011,854			US-PATENT-CLASS-429-107			US-PATENT-CLASS-350-100
N77-20882*	c 74	NASA-CASE-LAR-11782-1			US-PATENT-CLASS-429-190			US-PATENT-CLASS-350-102
		US-PATENT-APPL-SN-608482			US-PATENT-4,018,971			US-PATENT-CLASS-356-28
		US-PATENT-CLASS-350-145	N77-22607*	c 44	NASA-CASE-LAR-11361-1			US-PATENT-4,026,655
		US-PATENT-CLASS-350-174			US-PATENT-APPL-SN-669928	N77-25502*	c 36	NASA-CASE-NPO-13147-1
		US-PATENT-4,012,123			US-PATENT-CLASS-23-277R			US-PATENT-APPL-SN-317310
N77-21267*	c 32	NASA-CASE-LAR-11390-1			US-PATENT-CLASS-23-281			US-PATENT-CLASS-330-4.3
		US-PATENT-APPL-SN-662176			US-PATENT-CLASS-423-648R			US-PATENT-CLASS-331-94.5D
		US-PATENT-CLASS-340-5H			US-PATENT-CLASS-55-158			US-PATENT-CLASS-331-94.5P
		US-PATENT-CLASS-343-18B			US-PATENT-4,019,868			US-PATENT-4,027,273
		US-PATENT-CLASS-343-5CM	N77-22794*	c 51	NASA-CASE-GSC-12039-1	N77-25769*	c 51	NASA-CASE-LAR-10773-3
		US-PATENT-CLASS-343-5MM			US-PATENT-APPL-SN-572991			US-PATENT-APPL-SN-125235
		US-PATENT-4,019,179			US-PATENT-CLASS-195-103.5K			US-PATENT-APPL-SN-314656
N77-21314*	c 33	NASA-CASE-NPO-10189-1			US-PATENT-CLASS-195-103.5R			US-PATENT-APPL-SN-623238
		NASA-CASE-NPO-10781-1			US-PATENT-4,014,745			US-PATENT-CLASS-195-1.8
		US-PATENT-APPL-SN-744522	N77-22950*	c 74	NASA-CASE-ARC-10976-1			US-PATENT-4,018,649
		US-PATENT-CLASS-307-232			US-PATENT-APPL-SN-665032	N77-25772*	c 52	NASA-CASE-KSC-11030-1
		US-PATENT-CLASS-307-238			US-PATENT-CLASS-356-171			US-PATENT-APPL-SN-709849
		US-PATENT-CLASS-307-280			US-PATENT-4,018,533			US-PATENT-CLASS-128-1R
		US-PATENT-CLASS-329-119	N77-22951*	c 74	NASA-CASE-NPO-13722-1			US-PATENT-CLASS-3-1
		US-PATENT-CLASS-329-205			US-PATENT-APPL-SN-616472			US-PATENT-CLASS-339,12R
		US-PATENT-CLASS-332-16			US-PATENT-CLASS-250-203R			US-PATENT-4,025,964
		US-PATENT-CLASS-332-30			US-PATENT-CLASS-250-211K	N77-26385*	c 33	NASA-CASE-LEW-11978-1
		US-PATENT-CLASS-332-52			US-PATENT-CLASS-356-141			US-PATENT-APPL-SN-708658
		US-PATENT-3,582,828			US-PATENT-CLASS-356-152			US-PATENT-CLASS-204-32A
N77-21315*	c 33	NASA-CASE-NPO-11510-1			US-PATENT-CLASS-356-172			US-PATENT-CLASS-29-597
		US-PATENT-APPL-SN-173178			US-PATENT-4,018,532			US-PATENT-CLASS-29-622
		US-PATENT-APPL-SN-385059	N77-23106*	c 07	NASA-CASE-LEW-12830-1			US-PATENT-CLASS-29-628
		US-PATENT-CLASS-313-161			US-PATENT-APPL-SN-596641			US-PATENT-CLASS-29-630E
		US-PATENT-CLASS-313-184			US-PATENT-APPL-SN-655149			US-PATENT-4,023,266
		US-PATENT-CLASS-313-224			US-PATENT-CLASS-123-122E	N77-26386*	c 33	NASA-CASE-GSC-11824-1
		US-PATENT-CLASS-313-32			US-PATENT-CLASS-123-41.33			US-PATENT-APPL-SN-583486
		US-PATENT-CLASS-315-344			US-PATENT-CLASS-137-101			US-PATENT-CLASS-318-138
		US-PATENT-3,881,132			US-PATENT-CLASS-415-180			US-PATENT-CLASS-318-227
N77-21316*	c 33	NASA-CASE-NPO-10790-1			US-PATENT-CLASS-60-39.03			US-PATENT-CLASS-318-254

N77-26387*	c 33	US-PATENT-4,027,212 NASA-CASE-LAR-11389-1 US-PATENT-APPL-SN-229143 US-PATENT-APPL-SN-340862 US-PATENT-CLASS-310-111 US-PATENT-CLASS-310-168 US-PATENT-CLASS-322-96 US-PATENT-3,849,720	N77-28225*	c 24	US-PATENT-4,033,119 NASA-CASE-MS-C-12631-1 US-PATENT-APPL-SN-568541 US-PATENT-CLASS-156-229 US-PATENT-CLASS-244-123 US-PATENT-CLASS-428-141 US-PATENT-CLASS-428-161 US-PATENT-CLASS-428-425 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-458 US-PATENT-4,032,089	N77-30309*	c 32	NASA-CASE-GSC-11898-1 US-PATENT-APPL-SN-566494 US-PATENT-CLASS-179-1SA US-PATENT-CLASS-179-1SP US-PATENT-4,039,754
N77-26477*	c 36	NASA-CASE-NPO-13550-1 US-PATENT-APPL-SN-483301 US-PATENT-CLASS-250-281 US-PATENT-CLASS-250-282 US-PATENT-CLASS-250-283 US-PATENT-CLASS-250-423P US-PATENT-4,031,389	N77-28265*	c 26	NASA-CASE-LEW-11573-1 US-PATENT-APPL-SN-625733 US-PATENT-CLASS-228-190 US-PATENT-CLASS-228-194 US-PATENT-CLASS-228-232 US-PATENT-4,033,504	N77-30365*	c 33	NASA-CASE-NPO-13812-1 US-PATENT-APPL-SN-694855 US-PATENT-CLASS-307-64 US-PATENT-CLASS-363-53 US-PATENT-CLASS-363-70 US-PATENT-4,039,925
N77-26919*	c 71	NASA-CASE-NPO-13673-1 US-PATENT-APPL-SN-613004 US-PATENT-CLASS-330-5.5 US-PATENT-CLASS-331-107A US-PATENT-CLASS-333-72 US-PATENT-4,025,876	N77-28346*	c 32	NASA-CASE-GSC-12053-1 US-PATENT-APPL-SN-667930 US-PATENT-CLASS-250-199 US-PATENT-CLASS-250-238 US-PATENT-4,033,882	N77-30399*	c 34	NASA-CASE-MFS-19287-1 US-PATENT-APPL-SN-641802 US-PATENT-CLASS-137-207 US-PATENT-CLASS-137-209 US-PATENT-CLASS-60-259 US-PATENT-CLASS-62-55 US-PATENT-4,039,000
N77-26942*	c 74	NASA-CASE-GSC-12058-1 US-PATENT-APPL-SN-680938 US-PATENT-CLASS-250-199 US-PATENT-4,025,783	N77-28385*	c 33	NASA-CASE-LEW-12444-1 US-PATENT-APPL-SN-583485 US-PATENT-CLASS-123-148CB US-PATENT-CLASS-123-148E US-PATENT-CLASS-315-176 US-PATENT-4,033,316	N77-30436*	c 35	NASA-CASE-MFS-23175-1 US-PATENT-APPL-SN-667928 US-PATENT-CLASS-324-163 US-PATENT-CLASS-324-165 US-PATENT-CLASS-324-174 US-PATENT-CLASS-340-271 US-PATENT-CLASS-340-347P US-PATENT-CLASS-340-347SY US-PATENT-4,039,946
N77-27116*	c 07	NASA-CASE-LEW-12608-1 US-PATENT-APPL-SN-680067 US-PATENT-CLASS-416-220R US-PATENT-CLASS-416-221 US-PATENT-4,033,705	N77-28486*	c 37	NASA-CASE-LEW-11158-1 US-PATENT-APPL-SN-663008 US-PATENT-CLASS-308-5R US-PATENT-CLASS-308-73 US-PATENT-CLASS-308-9 US-PATENT-4,035,037	N77-30749*	c 54	NASA-CASE-KSC-11004-1 US-PATENT-APPL-SN-710032 US-PATENT-CLASS-3-2 US-PATENT-CLASS-3-21 US-PATENT-4,038,705
N77-27131*	c 09	NASA-CASE-LAR-11883-1 US-PATENT-APPL-SN-662175 US-PATENT-CLASS-73-15R US-PATENT-4,027,524	N77-28487*	c 37	NASA-CASE-MS-C-14905-1 US-PATENT-APPL-SN-708795 US-PATENT-CLASS-128-DIG.12 US-PATENT-CLASS-128-214F US-PATENT-CLASS-222-61 US-PATENT-CLASS-222-95 US-PATENT-4,033,479	N77-31308*	c 27	NASA-CASE-NPO-11609-2 US-PATENT-APPL-SN-228229 US-PATENT-APPL-SN-674700 US-PATENT-CLASS-210-DIG.27 US-PATENT-CLASS-210-40 US-PATENT-CLASS-260-2.5A US-PATENT-CLASS-260-2.5AM US-PATENT-CLASS-260-2.5AY US-PATENT-CLASS-260-7.5AP US-PATENT-4,039,489
N77-27188*	c 24	NASA-CASE-LEW-12118-1 US-PATENT-APPL-SN-616332 US-PATENT-CLASS-428-301 US-PATENT-CLASS-428-328 US-PATENT-CLASS-428-368 US-PATENT-CLASS-428-418 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-902 US-PATENT-CLASS-428-911 US-PATENT-4,029,838	N77-28511*	c 39	NASA-CASE-MFS-23299-1 US-PATENT-APPL-SN-700673 US-PATENT-CLASS-73-67.7 US-PATENT-CLASS-73-88R US-PATENT-4,033,182	N77-31350*	c 32	NASA-CASE-GSC-12075-1 US-PATENT-APPL-SN-562499 US-PATENT-CLASS-343-17.7 US-PATENT-4,042,926
N77-27345*	c 34	NASA-CASE-ARC-10974-1 US-PATENT-APPL-SN-667010 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-228 US-PATENT-4,028,939	N77-28716*	c 52	NASA-CASE-LEW-12258-1 US-PATENT-APPL-SN-676433 US-PATENT-CLASS-128-1R US-PATENT-CLASS-128-303R US-PATENT-4,033,349	N77-31404*	c 33	NASA-CASE-ARC-10897-1 US-PATENT-APPL-SN-625781 US-PATENT-CLASS-323-93 US-PATENT-CLASS-324-60 US-PATENT-CLASS-340-200 US-PATENT-CLASS-340-347SH US-PATENT-4,040,041
N77-27366*	c 35	NASA-CASE-GSC-12059-1 US-PATENT-APPL-SN-680957 US-PATENT-CLASS-331-94.5D US-PATENT-CLASS-331-94.5T US-PATENT-CLASS-350-253 US-PATENT-4,030,047	N77-28717*	c 52	NASA-CASE-MS-C-14623-1 US-PATENT-APPL-SN-637269 US-PATENT-CLASS-128-DIG.4 US-PATENT-CLASS-128-2.1E US-PATENT-CLASS-128-410 US-PATENT-4,033,334	N77-31465*	c 35	NASA-CASE-MFS-23118-1 US-PATENT-APPL-SN-691256 US-PATENT-CLASS-356-212 US-PATENT-4,040,750
N77-27367*	c 35	NASA-CASE-NPO-11103-1 US-PATENT-APPL-SN-3654 US-PATENT-CLASS-73-84 US-PATENT-3,623,359	N77-28932*	c 74	NASA-CASE-GSC-11989-1 US-PATENT-APPL-SN-845500 US-PATENT-CLASS-350-162SF US-PATENT-CLASS-350-202 US-PATENT-CLASS-350-299 US-PATENT-4,035,062	N77-31497*	c 37	NASA-CASE-NPO-13671-1 US-PATENT-APPL-SN-564622 US-PATENT-CLASS-123-DIG.8 US-PATENT-CLASS-123-119A US-PATENT-CLASS-123-122AB US-PATENT-CLASS-123-3 US-PATENT-CLASS-123-37 US-PATENT-CLASS-123-59E US-PATENT-4,041,910
N77-27368*	c 35	NASA-CASE-MS-C-12327-1 US-PATENT-APPL-SN-19572 US-PATENT-CLASS-73-362AR US-PATENT-3,613,454	N77-28933*	c 74	NASA-CASE-NPO-13707-1 US-PATENT-APPL-SN-617202 US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-310 US-PATENT-CLASS-350-320 US-PATENT-4,035,065	N77-31601*	c 44	NASA-CASE-LEW-12587-1 US-PATENT-APPL-SN-717319 US-PATENT-CLASS-136-89AC US-PATENT-CLASS-136-89P US-PATENT-CLASS-52-173R US-PATENT-CLASS-52-51 US-PATENT-4,040,867
N77-27400*	c 37	NASA-CASE-GSC-11063-1 US-PATENT-APPL-SN-41431 US-PATENT-CLASS-318-267 US-PATENT-CLASS-318-468 US-PATENT-CLASS-318-470 US-PATENT-CLASS-318-675 US-PATENT-3,628,113	N77-29260*	c 26	NASA-CASE-MFS-23405-1 US-PATENT-APPL-SN-718267 US-PATENT-CLASS-228-124 US-PATENT-CLASS-228-263 US-PATENT-4,033,503	N77-32148*	c 07	NASA-CASE-LEW-12312-1 US-PATENT-APPL-SN-654787 US-PATENT-CLASS-416-135 US-PATENT-CLASS-416-190 US-PATENT-CLASS-416-193A US-PATENT-CLASS-416-241A US-PATENT-4,045,149
N77-27677*	c 51	NASA-CASE-LAR-11649-1 US-PATENT-APPL-SN-626942 US-PATENT-CLASS-118-313 US-PATENT-CLASS-118-6 US-PATENT-CLASS-118-7 US-PATENT-CLASS-118-9 US-PATENT-CLASS-23-253A US-PATENT-CLASS-23-259 US-PATENT-CLASS-23-292 US-PATENT-CLASS-424-3 US-PATENT-CLASS-427-4 US-PATENT-CLASS-8-3 US-PATENT-CLASS-8-9.11 US-PATENT-4,029,470	N77-30236*	c 27	NASA-CASE-NPO-13620-1 US-PATENT-APPL-SN-666992 US-PATENT-CLASS-210-24 US-PATENT-CLASS-536-105 US-PATENT-CLASS-536-536-85 US-PATENT-CLASS-536-56 US-PATENT-CLASS-536-58 US-PATENT-CLASS-536-84 US-PATENT-4,041,233	N77-32255*	c 25	NASA-CASE-NPO-13566-1 US-PATENT-APPL-SN-653316 US-PATENT-CLASS-204-DIG.11 US-PATENT-CLASS-204-157.1R US-PATENT-CLASS-204-158R US-PATENT-CLASS-204-162R US-PATENT-CLASS-250-527 US-PATENT-4,045,359
N77-28118*	c 07	NASA-CASE-LAR-11310-1 US-PATENT-APPL-SN-394898 US-PATENT-CLASS-415-145 US-PATENT-CLASS-60-226R US-PATENT-CLASS-60-263	N77-30237*	c 27	NASA-CASE-MFS-23345-1 US-PATENT-APPL-SN-696989 US-PATENT-CLASS-106-292 US-PATENT-CLASS-106-296 US-PATENT-CLASS-106-299 US-PATENT-4,039,347	N77-32279*	c 26	NASA-CASE-LEW-12906-1 US-PATENT-APPL-SN-691936 US-PATENT-CLASS-148-32 US-PATENT-CLASS-75-170 US-PATENT-4,045,255
			N77-30308*	c 32	NASA-CASE-GSC-12017-1 US-PATENT-APPL-SN-645510 US-PATENT-CLASS-325-30 US-PATENT-CLASS-325-42 US-PATENT-CLASS-325-473 US-PATENT-CLASS-325-65 US-PATENT-4,041,391	N77-32280*	c 26	NASA-CASE-LEW-12270-1 US-PATENT-APPL-SN-645507 US-PATENT-CLASS-148-32.5

		US-PATENT-CLASS-75-170				US-PATENT-CLASS-340-347AD				US-PATENT-CLASS-3-12
		US-PATENT-4,046,560				US-PATENT-CLASS-350-96R				US-PATENT-CLASS-3-15
N77-32308*	c 27	NASA-CASE-GSC-12110-1	N77-32919*	c 76	NASA-CASE-MFS-23001-1	US-PATENT-4,045,792	N78-10709*	c 60	NASA-CASE-GSC-11839-2	US-PATENT-CLASS-3-29
		US-PATENT-APPL-SN-682435			US-PATENT-APPL-SN-610801				US-PATENT-4,051,558	
		US-PATENT-CLASS-156-645			US-PATENT-CLASS-156-DIG.62				US-PATENT-APPL-SN-468614	
		US-PATENT-CLASS-156-663			US-PATENT-CLASS-156-601				US-PATENT-APPL-SN-657996	
N77-32342*	c 32	US-PATENT-4,046,619			US-PATENT-CLASS-156-619				US-PATENT-CLASS-340-173LM	
		NASA-CASE-NPO-13587-1			US-PATENT-CLASS-156-620				US-PATENT-CLASS-350-96R	
		US-PATENT-APPL-SN-589119			US-PATENT-4,046,617				US-PATENT-CLASS-356-169	
		US-PATENT-CLASS-343-10	N78-10214*	c 24	NASA-CASE-LAR-11898-1		N78-10837*	c 71	US-PATENT-4,052,705	
		US-PATENT-CLASS-343-100CL			US-PATENT-APPL-SN-723264				NASA-CASE-NPO-13802-1	
		US-PATENT-CLASS-343-5CM			US-PATENT-CLASS-428-116				US-PATENT-APPL-SN-658133	
		US-PATENT-CLASS-343-5DP			US-PATENT-CLASS-428-138				US-PATENT-CLASS-264-23	
N77-32413*	c 34	US-PATENT-4,045,795			US-PATENT-CLASS-428-73				US-PATENT-CLASS-264-345	
		NASA-CASE-GSC-11998-1			US-PATENT-CLASS-428-902				US-PATENT-CLASS-65-DIG.4	
		US-PATENT-APPL-SN-579989			US-PATENT-4,052,523				US-PATENT-CLASS-65-DIG.7	
		US-PATENT-CLASS-165-105	N78-10224*	c 25	NASA-CASE-LEW-12137-1				US-PATENT-CLASS-65-102	
		US-PATENT-4,046,190			US-PATENT-APPL-SN-672210				US-PATENT-CLASS-65-2	
N77-32454*	c 35	NASA-CASE-LEW-12050-1			US-PATENT-CLASS-165-105				US-PATENT-CLASS-65-32	
		US-PATENT-APPL-SN-629457			US-PATENT-CLASS-431-158				US-PATENT-CLASS-65-48	
		US-PATENT-CLASS-136-202			US-PATENT-CLASS-431-352				US-PATENT-CLASS-65-87	
		US-PATENT-CLASS-136-236R			US-PATENT-CLASS-60-39.51R				US-PATENT-CLASS-73-505	
		US-PATENT-CLASS-136-240			US-PATENT-4,052,144		N78-12390*	c 35	US-PATENT-4,052,181	
N77-32455*	c 35	NASA-CASE-NPO-13792-1			NASA-CASE-MSC-14831-1				NASA-CASE-MSC-14773-1	
		US-PATENT-APPL-SN-677351			US-PATENT-APPL-SN-685027				US-PATENT-APPL-SN-612966	
		US-PATENT-CLASS-324-57H			US-PATENT-CLASS-204-292				US-PATENT-CLASS-137-197	
		US-PATENT-CLASS-324-59			US-PATENT-CLASS-210-63R				US-PATENT-CLASS-210-222	
		US-PATENT-4,045,728			US-PATENT-CLASS-210-71				US-PATENT-CLASS-55-100	
N77-32456*	c 35	NASA-CASE-GSC-12143-1			US-PATENT-CLASS-252-472				US-PATENT-CLASS-55-26-9	
		US-PATENT-APPL-SN-743249			US-PATENT-CLASS-427-229				US-PATENT-CLASS-55-3	
		US-PATENT-CLASS-250-288			US-PATENT-4,052,302				US-PATENT-CLASS-62-50	
		US-PATENT-CLASS-73-421.5R	N78-10375*	c 33	NASA-CASE-MSC-14916-1				US-PATENT-CLASS-62-514R	
		US-PATENT-4,046,012			US-PATENT-APPL-SN-739914				US-PATENT-4,027,494	
N77-32478*	c 36	NASA-CASE-LEW-12164-1			US-PATENT-CLASS-179-107R		N78-13320*	c 33	NASA-CASE-MFS-23274-1	
		US-PATENT-APPL-SN-511334			US-PATENT-CLASS-179-175.1A				US-PATENT-APPL-SN-714158	
		US-PATENT-CLASS-350-162SF			US-PATENT-CLASS-330-2				US-PATENT-CLASS-307-306	
		US-PATENT-4,043,674			US-PATENT-4,049,930				US-PATENT-CLASS-338-32S	
N77-32499*	c 37	NASA-CASE-MSC-19535-1			NASA-CASE-MFS-23280-1				US-PATENT-CLASS-357-4	
		US-PATENT-APPL-SN-641784			US-PATENT-APPL-SN-706425				US-PATENT-CLASS-357-5	
		US-PATENT-CLASS-292-110			US-PATENT-CLASS-318-200				US-PATENT-CLASS-357-73	
		US-PATENT-4,045,063			US-PATENT-CLASS-318-227				US-PATENT-4,055,847	
N77-32500*	c 37	NASA-CASE-LEW-12527-1			US-PATENT-CLASS-318-230		N78-13400*	c 35	NASA-CASE-ARC-10639-1	
		US-PATENT-APPL-SN-595747			US-PATENT-4,052,648				US-PATENT-APPL-SN-643043	
		US-PATENT-CLASS-290-52			NASA-CASE-NPO-13872-1				US-PATENT-CLASS-250-336	
		US-PATENT-CLASS-308-195	N78-10377*	c 33	US-PATENT-APPL-SN-742034				US-PATENT-CLASS-250-343	
		US-PATENT-CLASS-308-72			US-PATENT-CLASS-363-57				US-PATENT-CLASS-250-351	
		US-PATENT-4,046,434			US-PATENT-CLASS-363-89				US-PATENT-4,055,764	
N77-32501*	c 37	NASA-CASE-LEW-12477-1			US-PATENT-4,052,659		N78-13436*	c 37	NASA-CASE-LEW-12083-1	
		US-PATENT-APPL-SN-595745			NASA-CASE-MSC-14757-1				US-PATENT-APPL-SN-659882	
		US-PATENT-CLASS-290-52			US-PATENT-APPL-SN-625734				US-PATENT-CLASS-250-499	
		US-PATENT-CLASS-308-195			US-PATENT-CLASS-141-197				US-PATENT-CLASS-313-61S	
		US-PATENT-4,046,435			US-PATENT-CLASS-141-4				US-PATENT-CLASS-427-124	
N77-32580*	c 44	NASA-CASE-NPO-13675-1			US-PATENT-CLASS-417-225				US-PATENT-CLASS-427-126	
		US-PATENT-APPL-SN-658132			US-PATENT-CLASS-60-560				US-PATENT-CLASS-427-248E	
		US-PATENT-CLASS-204-157.1R			US-PATENT-CLASS-60-574				US-PATENT-CLASS-427-250	
		US-PATENT-CLASS-250-527			US-PATENT-4,051,877				US-PATENT-CLASS-427-255	
		US-PATENT-4,045,315	N78-10429*	c 35	NASA-CASE-NPO-13772-1				US-PATENT-4,055,686	
N77-32581*	c 44	NASA-CASE-NPO-13510-1			US-PATENT-APPL-SN-675351		N78-13526*	c 44	NASA-CASE-NPO-13482-1	
		US-PATENT-APPL-SN-536786			US-PATENT-CLASS-250-310				US-PATENT-APPL-SN-495021	
		US-PATENT-CLASS-126-263			US-PATENT-CLASS-250-398				US-PATENT-CLASS-136-89SJ	
		US-PATENT-CLASS-165-107			US-PATENT-4,052,614				US-PATENT-CLASS-357-15	
		US-PATENT-CLASS-165-2			NASA-CASE-LEW-12321-1				US-PATENT-CLASS-357-16	
		US-PATENT-CLASS-62-4			US-PATENT-APPL-SN-596641				US-PATENT-CLASS-357-30	
		US-PATENT-4,044,821			US-PATENT-CLASS-123-122E				US-PATENT-4,053,918	
N77-32582*	c 44	NASA-CASE-NPO-13810-1			US-PATENT-CLASS-123-41.33		N78-13874*	c 74	NASA-CASE-GSC-12088-1	
		US-PATENT-APPL-SN-681096			US-PATENT-CLASS-137-104				US-PATENT-APPL-SN-648700	
		US-PATENT-CLASS-126-270			US-PATENT-CLASS-415-180				US-PATENT-CLASS-356-103	
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-60-39.28R				US-PATENT-CLASS-356-104	
		US-PATENT-CLASS-52-117			US-PATENT-CLASS-60-39.66				US-PATENT-4,053,229	
		US-PATENT-CLASS-60-641			US-PATENT-4,041,697		N78-14096*	c 24	NASA-CASE-ARC-11042-1	
		US-PATENT-4,044,753			NASA-CASE-LEW-12313-1				US-PATENT-APPL-SN-734902	
N77-32583*	c 44	NASA-CASE-NPO-13736-1			US-PATENT-APPL-SN-581751				US-PATENT-CLASS-252-8.1	
		US-PATENT-APPL-SN-681017			US-PATENT-CLASS-416-135				US-PATENT-CLASS-60-836	
		US-PATENT-CLASS-350-295			US-PATENT-CLASS-416-141				US-PATENT-4,061,579	
		US-PATENT-CLASS-350-320			US-PATENT-CLASS-416-220R		N78-14104*	c 25	NASA-CASE-ARC-10991-1	
		US-PATENT-CLASS-427-130			US-PATENT-CLASS-416-248				US-PATENT-APPL-SN-744574	
		US-PATENT-CLASS-427-47			US-PATENT-4,047,840				US-PATENT-CLASS-204-180G	
		US-PATENT-CLASS-52-2			NASA-CASE-NPO-13731-1				US-PATENT-CLASS-204-299R	
		US-PATENT-4,046,462			US-PATENT-APPL-SN-653682				US-PATENT-4,061,561	
N77-32721*	c 54	NASA-CASE-ARC-10756-1			US-PATENT-CLASS-73-15.6		N78-14164*	c 27	NASA-CASE-NPO-13867-1	
		US-PATENT-APPL-SN-436313			US-PATENT-CLASS-73-91				US-PATENT-APPL-SN-692284	
		US-PATENT-CLASS-2-2.1A			US-PATENT-4,030,348				US-PATENT-CLASS-260-DIG.15	
		US-PATENT-CLASS-214-1BC			NASA-CASE-GSC-11976-1				US-PATENT-CLASS-427-164	
		US-PATENT-CLASS-214-1CM			US-PATENT-APPL-SN-677352				US-PATENT-CLASS-428-411	
		US-PATENT-4,046,262			US-PATENT-CLASS-324-58.5B				US-PATENT-CLASS-428-522	
N77-32722*	c 54	NASA-CASE-MSC-14771-1			US-PATENT-4,052,666				US-PATENT-CLASS-428-922	
		US-PATENT-APPL-SN-688854			NASA-CASE-NPO-13734-1				US-PATENT-CLASS-96-87A	
		US-PATENT-CLASS-165-166			US-PATENT-APPL-SN-680939				US-PATENT-4,061,834	
		US-PATENT-CLASS-55-179			US-PATENT-CLASS-126-271		N78-14364*	c 35	NASA-CASE-ARC-11046-1	
		US-PATENT-CLASS-55-269			US-PATENT-CLASS-237-1A				US-PATENT-APPL-SN-712419	
		US-PATENT-4,046,529			US-PATENT-CLASS-350-293				US-PATENT-CLASS-340-27SS	
N77-32731*	c 60	NASA-CASE-GSC-11839-3			US-PATENT-CLASS-350-299				US-PATENT-CLASS-73-180	
		US-PATENT-APPL-SN-468614			US-PATENT-4,051,834				US-PATENT-4,061,029	
		US-PATENT-APPL-SN-657997			NASA-CASE-ARC-10916-1		N78-14380*	c 36	NASA-CASE-MFS-19259-1	
		US-PATENT-CLASS-250-199			US-PATENT-APPL-SN-701448				US-PATENT-APPL-SN-732630	

N78-14452*	c 43	US-PATENT-CLASS-250-571	US-PATENT-CLASS-428-428	US-PATENT-APPL-SN-759220
		US-PATENT-CLASS-356-159	US-PATENT-4,062,996	US-PATENT-CLASS-260-67
		US-PATENT-CLASS-356-160	N78-15880* c 74	US-PATENT-3,538,053
N78-14625*	c 44	US-PATENT-CLASS-356-199	NASA-CASE-MFS-22409-2	NASA-CASE-NPO-13764-1
		US-PATENT-4,061,427	US-PATENT-APPL-SN-445398	US-PATENT-APPL-SN-674194
		NASA-CASE-LEW-12217-1	US-PATENT-APPL-SN-636193	US-PATENT-CLASS-128-92C
N78-14773*	c 52	US-PATENT-APPL-SN-763753	US-PATENT-CLASS-250-272	US-PATENT-CLASS-128-92G
		US-PATENT-CLASS-166-248	US-PATENT-CLASS-250-320	US-PATENT-CLASS-260-42.17
		US-PATENT-CLASS-166-259	US-PATENT-4,063,088	US-PATENT-CLASS-3-1.9
N78-14784*	c 54	US-PATENT-4,061,190	N78-16369* c 37	US-PATENT-4,064,566
		NASA-CASE-LEW-12039-1	NASA-CASE-NPO-13619-1	NASA-CASE-LEW-11981-1
		US-PATENT-APPL-SN-687822	US-PATENT-APPL-SN-572990	US-PATENT-APPL-SN-672220
N78-14867*	c 71	US-PATENT-CLASS-320-15	US-PATENT-CLASS-185-38	US-PATENT-CLASS-313-22
		US-PATENT-CLASS-320-18	US-PATENT-CLASS-74-81	US-PATENT-CLASS-62-376
		US-PATENT-CLASS-320-40	US-PATENT-CLASS-74-83	US-PATENT-CLASS-62-514R
N78-14889*	c 74	US-PATENT-CLASS-320-6	US-PATENT-4,062,245	US-PATENT-4,068,495
		US-PATENT-4,061,955	N78-16387* c 39	NASA-CASE-LAR-11490-1
		NASA-CASE-LEW-12668-1	US-PATENT-APPL-SN-707125	US-PATENT-APPL-SN-11978
N78-15180*	c 24	US-PATENT-APPL-SN-677353	US-PATENT-CLASS-358-106	NASA-CASE-NPO-11978
		US-PATENT-CLASS-128-305	US-PATENT-4,063,282	US-PATENT-APPL-SN-264268
		US-PATENT-4,061,146	NASA-CASE-XNP-01458	US-PATENT-CLASS-313-175
N78-15210*	c 25	NASA-CASE-MSC-14632-1	US-PATENT-APPL-SN-160093	US-PATENT-CLASS-313-176
		US-PATENT-APPL-SN-571459	US-PATENT-CLASS-235-70	US-PATENT-CLASS-313-180
		US-PATENT-CLASS-204-180P	US-PATENT-3,229,905	US-PATENT-CLASS-313-184
N78-15276*	c 27	US-PATENT-CLASS-204-301	N78-17031* c 04	US-PATENT-CLASS-313-224
		US-PATENT-CLASS-210-192	US-PATENT-APPL-SN-581750	US-PATENT-3,769,544
		US-PATENT-CLASS-210-96M	US-PATENT-CLASS-60-204	NASA-CASE-XLE-06094
N78-15323*	c 32	US-PATENT-CLASS-23-253A	US-PATENT-CLASS-60-226R	US-PATENT-APPL-SN-523632
		US-PATENT-4,061,570	US-PATENT-CLASS-60-271	US-PATENT-CLASS-315-22
		NASA-CASE-LAR-12106-1	US-PATENT-4,068,469	US-PATENT-3,423,627
N78-15357*	c 35	US-PATENT-APPL-SN-740156	N78-17056* c 07	NASA-CASE-MSC-11235
		US-PATENT-CLASS-330-52	US-PATENT-APPL-SN-522109	US-PATENT-APPL-SN-698239
		US-PATENT-CLASS-373-646	US-PATENT-CLASS-60-226R	US-PATENT-CLASS-307-270
N78-15512*	c 39	US-PATENT-4,061,041	US-PATENT-CLASS-74-385	US-PATENT-CLASS-307-297
		NASA-CASE-KSC-11047-1	US-PATENT-CLASS-74-417	US-PATENT-CLASS-323-4
		US-PATENT-APPL-SN-715485	US-PATENT-4,068,470	US-PATENT-CLASS-328-172
N78-15560*	c 44	US-PATENT-CLASS-179-91R	N78-17140* c 17	US-PATENT-3,573,504
		US-PATENT-CLASS-250-199	NASA-CASE-HQN-10880-1	NASA-CASE-XGS-09186
		US-PATENT-CLASS-358-142	US-PATENT-APPL-SN-595254	US-PATENT-APPL-SN-669911
N78-15587*	c 47	US-PATENT-4,061,577	US-PATENT-CLASS-325-118	US-PATENT-CLASS-323-18
		NASA-CASE-ARC-10913-1	US-PATENT-CLASS-325-66	US-PATENT-3,475,675
		US-PATENT-APPL-SN-698646	US-PATENT-CLASS-343-112R	NASA-CASE-GSC-10135
N78-15590*	c 49	US-PATENT-CLASS-106-15FP	US-PATENT-CLASS-343-225	US-PATENT-APPL-SN-764823
		US-PATENT-CLASS-260-2.5N	US-PATENT-CLASS-362-269	US-PATENT-CLASS-307-53
		US-PATENT-CLASS-260-2.5R	US-PATENT-4,067,015	US-PATENT-CLASS-307-69
N78-15600*	c 51	US-PATENT-CLASS-428-117	N78-17149* c 24	US-PATENT-CLASS-320-53
		US-PATENT-CLASS-428-290	NASA-CASE-LAR-11898-2	US-PATENT-CLASS-323-19
		US-PATENT-CLASS-428-71	US-PATENT-APPL-SN-723264	US-PATENT-CLASS-323-19
N78-15620*	c 53	US-PATENT-CLASS-428-73	US-PATENT-APPL-SN-799024	US-PATENT-3,600,599
		US-PATENT-CLASS-428-920	US-PATENT-CLASS-156-245	NASA-CASE-LEW-12508-1
		US-PATENT-4,061,812	US-PATENT-CLASS-156-285	US-PATENT-APPL-SN-746580
N78-15630*	c 55	US-PATENT-4,061,812	US-PATENT-CLASS-156-289	US-PATENT-CLASS-62-3
		NASA-CASE-LAR-12046-1	US-PATENT-CLASS-428-116	US-PATENT-4,069,028
		US-PATENT-APPL-SN-755310	US-PATENT-CLASS-428-902	NASA-CASE-ARC-10198
N78-15640*	c 57	US-PATENT-CLASS-23-230PC	US-PATENT-4,063,981	US-PATENT-APPL-SN-42088
		US-PATENT-CLASS-23-232E	N78-17150* c 24	US-PATENT-CLASS-165-105
		US-PATENT-CLASS-23-232R	US-PATENT-APPL-SN-792067	US-PATENT-CLASS-165-134
N78-15650*	c 59	US-PATENT-CLASS-73-23	US-PATENT-CLASS-156-154	US-PATENT-3,777,811
		US-PATENT-4,062,650	US-PATENT-CLASS-156-264	NASA-CASE-ARC-10199
		NASA-CASE-LEW-12053-1	US-PATENT-CLASS-156-285	US-PATENT-APPL-SN-824628
N78-15660*	c 61	US-PATENT-APPL-SN-513613	US-PATENT-CLASS-156-286	US-PATENT-CLASS-165-105
		US-PATENT-CLASS-260-2R	US-PATENT-CLASS-156-289	US-PATENT-CLASS-165-32
		US-PATENT-CLASS-526-193	US-PATENT-CLASS-156-300	US-PATENT-CLASS-165-96
N78-15670*	c 63	US-PATENT-CLASS-526-225	US-PATENT-CLASS-156-306	US-PATENT-CLASS-2-2.1
		US-PATENT-CLASS-544-193	US-PATENT-CLASS-156-311	US-PATENT-3,543,839
		US-PATENT-4,061,856	US-PATENT-CLASS-264-157	NASA-CASE-MFS-23194-1
N78-15680*	c 65	NASA-CASE-NPO-13836-1	US-PATENT-CLASS-264-157	US-PATENT-APPL-SN-629458
		US-PATENT-APPL-SN-699002	US-PATENT-CLASS-428-294	US-PATENT-CLASS-350-3.5
		US-PATENT-CLASS-178-69.1	US-PATENT-CLASS-428-302	US-PATENT-4,065,202
N78-15690*	c 67	US-PATENT-CLASS-325-58	US-PATENT-4,065,340	NASA-CASE-MSC-11242
		US-PATENT-CLASS-325-63	N78-17205* c 27	US-PATENT-APPL-SN-636796
		US-PATENT-CLASS-343-179	NASA-CASE-LAR-12181-1	US-PATENT-CLASS-73-67.2
N78-15700*	c 69	US-PATENT-4,061,974	US-PATENT-APPL-SN-532784	US-PATENT-3,492,858
		NASA-CASE-NPO-13808-1	US-PATENT-APPL-SN-734901	NASA-CASE-NPO-11150
		US-PATENT-APPL-SN-675328	US-PATENT-CLASS-156-309	US-PATENT-APPL-SN-858950
N78-15710*	c 71	US-PATENT-CLASS-250-322	US-PATENT-CLASS-156-331	US-PATENT-CLASS-338-100
		US-PATENT-CLASS-250-416TV	US-PATENT-CLASS-260-30.4N	US-PATENT-CLASS-338-36
		US-PATENT-4,063,092	US-PATENT-CLASS-260-32.2R	US-PATENT-CLASS-338-99
N78-15720*	c 73	NASA-CASE-LAR-12016-1	US-PATENT-CLASS-260-32.6NT	US-PATENT-3,641,470
		US-PATENT-APPL-SN-754066	US-PATENT-CLASS-260-33.4R	NASA-CASE-MFS-22597
		US-PATENT-CLASS-73-579	US-PATENT-4,065,345	US-PATENT-APPL-SN-395895
N78-15730*	c 75	US-PATENT-CLASS-73-630	N78-17206* c 27	US-PATENT-CLASS-315-108
		US-PATENT-CLASS-73-88F	NASA-CASE-LAR-11902-1	US-PATENT-CLASS-331-94.5G
		US-PATENT-4,062,227	US-PATENT-APPL-SN-672695	US-PATENT-CLASS-331-94.5T
N78-15740*	c 77	NASA-CASE-LAR-12009-1	US-PATENT-CLASS-106-43	US-PATENT-3,882,417
		US-PATENT-APPL-SN-717320	US-PATENT-CLASS-60-200A	NASA-CASE-MSC-19666-1
		US-PATENT-CLASS-126-270	US-PATENT-CLASS-75-229	US-PATENT-APPL-SN-721150
N78-15750*	c 79	US-PATENT-CLASS-126-400	US-PATENT-CLASS-75-239	US-PATENT-CLASS-118-50
		US-PATENT-CLASS-237-1A	US-PATENT-CLASS-75-241	US-PATENT-CLASS-118-500
		US-PATENT-4,062,347	US-PATENT-4,067,742	US-PATENT-CLASS-248-36-3
N78-15760*	c 81	NASA-CASE-LAR-10385-3	N78-17213* c 27	US-PATENT-CLASS-269-21
		US-PATENT-APPL-SN-370999	NASA-CASE-MSC-14331-2	US-PATENT-CLASS-279-3
		US-PATENT-APPL-SN-38816	US-PATENT-APPL-SN-657907	US-PATENT-CLASS-51-235
N78-15770*	c 83	US-PATENT-CLASS-350-1	US-PATENT-CLASS-260-75NH	US-PATENT-4,066,039
		US-PATENT-CLASS-428-334	US-PATENT-CLASS-260-75NK	NASA-CASE-LEW-12916-1
		US-PATENT-CLASS-428-336	US-PATENT-CLASS-260-75NT	US-PATENT-APPL-SN-583056
N78-15780*	c 85	US-PATENT-CLASS-428-426	US-PATENT-CLASS-260-77.5AM	US-PATENT-CLASS-60-261
			US-PATENT-CLASS-260-77.5AN	US-PATENT-CLASS-60-262
			US-PATENT-CLASS-260-77.5AT	US-PATENT-CLASS-60-271
N78-15790*	c 87		US-PATENT-CLASS-260-77.5BP	
			US-PATENT-CLASS-260-77.5BT	
			US-PATENT-4,069,212	
N78-15800*	c 89		N78-17214* c 27	NASA-CASE-NPO-10557

N78-17385*	c 37	US-PATENT-4,064,692 NASA-CASE-WOO-00625 US-PATENT-APPL-SN-362278 US-PATENT-CLASS-74-800 US-PATENT-CLASS-3,306,134	N78-18083*	c 09	US-PATENT-CLASS-60-262 US-PATENT-4,069,661 NASA-CASE-ARC-10903-1 US-PATENT-APPL-SN-623536 US-PATENT-CLASS-35-12N US-PATENT-CLASS-358-104 US-PATENT-4,055,004	N78-24275*	c 20	NASA-CASE-LAR-12018-1 US-PATENT-APPL-SN-678520 US-PATENT-CLASS-102-39 US-PATENT-CLASS-102-49.7 US-PATENT-CLASS-102-70R US-PATENT-CLASS-285-192 US-PATENT-CLASS-60-39.82E US-PATENT-4,080,901
N78-17386*	c 37	NASA-CASE-NPO-10151 US-PATENT-APPL-SN-365244 US-PATENT-CLASS-328-233 US-PATENT-3,387,218	N78-18182*	c 26	NASA-CASE-LEW-12095-1 US-PATENT-APPL-SN-651009 US-PATENT-CLASS-75-124 US-PATENT-CLASS-75-126D US-PATENT-CLASS-75-126F US-PATENT-CLASS-75-128G US-PATENT-CLASS-75-128T US-PATENT-4,055,416	N78-24290*	c 24	NASA-CASE-MFS-23506-1 US-PATENT-APPL-SN-760809 US-PATENT-CLASS-260-2.5AK US-PATENT-CLASS-260-2.5AP US-PATENT-CLASS-260-2.5B US-PATENT-CLASS-260-2.5BE US-PATENT-CLASS-260-2.5EP US-PATENT-CLASS-260-2.5FP US-PATENT-CLASS-260-29.1R US-PATENT-CLASS-260-37EP US-PATENT-CLASS-427-427 US-PATENT-4,077,921
N78-17395*	c 38	NASA-CASE-NPO-13283 US-PATENT-APPL-SN-401225 US-PATENT-CLASS-235-151.3 US-PATENT-CLASS-235-156 US-PATENT-CLASS-235-181 US-PATENT-CLASS-250-572 US-PATENT-CLASS-356-237 US-PATENT-3,908,118	N78-18183*	c 26	NASA-CASE-LEW-12905-1 US-PATENT-APPL-SN-684171 US-PATENT-CLASS-148-32 US-PATENT-CLASS-148-32.5 US-PATENT-CLASS-75-170 US-PATENT-4,055,447	N78-24333*	c 26	NASA-CASE-MSC-19693-1 US-PATENT-APPL-SN-708771 US-PATENT-CLASS-148-12.7A US-PATENT-CLASS-148-125 US-PATENT-4,077,813
N78-17396*	c 38	NASA-CASE-NPO-13282 US-PATENT-APPL-SN-401224 US-PATENT-CLASS-235-151.3 US-PATENT-CLASS-235-156 US-PATENT-CLASS-250-563 US-PATENT-CLASS-250-572 US-PATENT-CLASS-356-165 US-PATENT-CLASS-356-237 US-PATENT-3,909,602	N78-18308*	c 33	NASA-CASE-FRC-10090-1 US-PATENT-APPL-SN-737974 US-PATENT-CLASS-307-265 US-PATENT-CLASS-307-350 US-PATENT-CLASS-307-360 US-PATENT-CLASS-328-150 US-PATENT-4,055,777	N78-24365*	c 28	NASA-CASE-LEW-12081-1 US-PATENT-APPL-SN-676432 US-PATENT-CLASS-250-492R US-PATENT-CLASS-34-15 US-PATENT-CLASS-423-648R US-PATENT-CLASS-62-100 US-PATENT-CLASS-62-48 US-PATENT-4,077,788
N78-17460*	c 44	NASA-CASE-NPO-13579-1 US-PATENT-APPL-SN-598969 US-PATENT-CLASS-126-263 US-PATENT-CLASS-126-271 US-PATENT-CLASS-165-2 US-PATENT-CLASS-237-1A US-PATENT-CLASS-60-641 US-PATENT-CLASS-62-4 US-PATENT-4,065,053	N78-18355*	c 34	NASA-CASE-LEW-12554-1 US-PATENT-APPL-SN-686449 US-PATENT-CLASS-427-34 US-PATENT-CLASS-427-405 US-PATENT-CLASS-427-419A US-PATENT-CLASS-427-423 US-PATENT-CLASS-428-633 US-PATENT-CLASS-428-652 US-PATENT-CLASS-428-667 US-PATENT-4,055,705	N78-24391*	c 32	NASA-CASE-NPO-13886-1 US-PATENT-APPL-SN-730045 US-PATENT-CLASS-307-151 US-PATENT-CLASS-343-700MS US-PATENT-CLASS-361-395 US-PATENT-4,079,268
N78-17675*	c 54	NASA-CASE-ARC-11101-1 US-PATENT-APPL-SN-753976 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-36-119 US-PATENT-CLASS-36-92 US-PATENT-4,064,642	N78-18390*	c 35	NASA-CASE-MFS-23008-1 US-PATENT-APPL-SN-665734 US-PATENT-CLASS-73-DIG.11 US-PATENT-CLASS-73-28 US-PATENT-CLASS-73-432PS US-PATENT-CLASS-73-432R US-PATENT-4,055,089	N78-24515*	c 35	NASA-CASE-LAR-11201-1 US-PATENT-APPL-SN-788705 US-PATENT-CLASS-416-14 US-PATENT-CLASS-416-61 US-PATENT-CLASS-73-456 US-PATENT-CLASS-73-756 US-PATENT-4,082,001
N78-17676*	c 54	NASA-CASE-MFS-23311-1 US-PATENT-APPL-SN-708800 US-PATENT-CLASS-214-1CM US-PATENT-CLASS-3-12.5 US-PATENT-CLASS-74-515E US-PATENT-4,068,763	N78-18391*	c 35	NASA-CASE-NPO-13687-1 US-PATENT-APPL-SN-641803 US-PATENT-CLASS-356-106S US-PATENT-CLASS-356-110 US-PATENT-4,053,231	N78-24544*	c 37	NASA-CASE-MSC-16000-1 US-PATENT-APPL-SN-739915 US-PATENT-CLASS-29-156.8R US-PATENT-CLASS-29-23.5 US-PATENT-CLASS-29-244 US-PATENT-CLASS-29-252 US-PATENT-4,078,290
N78-17677*	c 54	NASA-CASE-MSC-13054 US-PATENT-APPL-SN-585217 US-PATENT-CLASS-2-161 US-PATENT-3,490,074	N78-18395* #	c 35	NASA-CASE-NPO-13999-1 US-PATENT-APPL-SN-858596 US-PATENT-CLASS-29-252 US-PATENT-4,078,290	N78-24545*	c 37	NASA-CASE-LEW-12785-1 US-PATENT-APPL-SN-739909 US-PATENT-CLASS-60-39.28R US-PATENT-4,078,378
N78-17678*	c 54	NASA-CASE-XMS-04670 US-PATENT-APPL-SN-535169 US-PATENT-CLASS-2-2.1 US-PATENT-3,488,771	N78-18410*	c 36	NASA-CASE-NPO-13801-1 US-PATENT-APPL-SN-708796 US-PATENT-CLASS-330-4 US-PATENT-CLASS-332-7.5 US-PATENT-4,055,810	N78-24608*	c 44	NASA-CASE-GSC-12030-1 US-PATENT-APPL-SN-710035 US-PATENT-CLASS-308-10 US-PATENT-CLASS-310-153 US-PATENT-CLASS-310-154 US-PATENT-CLASS-310-178 US-PATENT-CLASS-310-269 US-PATENT-4,077,678
N78-17679*	c 54	US-PATENT-3,487,765 NASA-CASE-XMS-04928 US-PATENT-APPL-SN-584914 US-PATENT-CLASS-98-1 US-PATENT-3,487,765	N78-18761*	c 54	NASA-CASE-MSC-10954-1 US-PATENT-APPL-SN-529884 US-PATENT-CLASS-2-2.1 US-PATENT-3,514,785	N78-24609*	c 44	NASA-CASE-GSC-12022-2 US-PATENT-APPL-SN-693074 US-PATENT-CLASS-136-895G US-PATENT-CLASS-148-174 US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-59 US-PATENT-CLASS-427-113 US-PATENT-CLASS-427-248J US-PATENT-CLASS-427-249 US-PATENT-CLASS-427-86 US-PATENT-4,077,818
N78-17680*	c 54	NASA-CASE-XMS-09653 US-PATENT-APPL-SN-538863 US-PATENT-CLASS-2-6 US-PATENT-3,359,568	N78-18905*	c 74	NASA-CASE-GSC-12010-1 US-PATENT-APPL-SN-680958 US-PATENT-CLASS-250-213VT US-PATENT-CLASS-313-442 US-PATENT-CLASS-313-94 US-PATENT-4,070,574	N78-24950*	c 76	NASA-CASE-MFS-23315-1 US-PATENT-APPL-SN-724874 US-PATENT-CLASS-250-277CH US-PATENT-CLASS-250-280 US-PATENT-4,078,175
N78-17691*	c 60	NASA-CASE-GSC-12044-1 US-PATENT-APPL-SN-631341 US-PATENT-CLASS-340-347DD US-PATENT-4,069,478	N78-19302*	c 27	NASA-CASE-NPO-13690-1 US-PATENT-APPL-SN-633876 US-PATENT-CLASS-106-39.5 US-PATENT-CLASS-106-65 US-PATENT-CLASS-106-73.5 US-PATENT-4,072,532	N78-25089*	c 07	NASA-CASE-LEW-12452-1 US-PATENT-APPL-SN-695513 US-PATENT-CLASS-60-226R US-PATENT-CLASS-60-39.52 US-PATENT-4,083,181
N78-17865*	c 74	NASA-CASE-MSC-12618-1 US-PATENT-APPL-SN-651007 US-PATENT-CLASS-350-159 US-PATENT-CLASS-358-225 US-PATENT-CLASS-358-41 US-PATENT-CLASS-358-55 US-PATENT-4,067,043	N78-19465*	c 35	NASA-CASE-ARC-10896-1 US-PATENT-APPL-SN-615030 US-PATENT-CLASS-73-23 US-PATENT-4,055,072	N78-25090*	c 07	NASA-CASE-LEW-11855-1 US-PATENT-APPL-SN-672222 US-PATENT-CLASS-277-134 US-PATENT-CLASS-277-25 US-PATENT-4,084,825
N78-17866*	c 74	NASA-CASE-LAR-11711-1 US-PATENT-APPL-SN-674195 US-PATENT-CLASS-250-201 US-PATENT-CLASS-350-204 US-PATENT-CLASS-356-28 US-PATENT-4,063,814	N78-19466*	c 35	NASA-CASE-ARC-10820-1 US-PATENT-APPL-SN-620675 US-PATENT-CLASS-119-51.11 US-PATENT-CLASS-119-72.5 US-PATENT-CLASS-137-624.11 US-PATENT-4,055,147	N78-25119*	c 15	NASA-CASE-MFS-23564-1 US-PATENT-APPL-SN-739908 US-PATENT-CLASS-244-161 US-PATENT-CLASS-244-167
N78-17867*	c 74	NASA-CASE-NPO-13759-1 US-PATENT-APPL-SN-718266 US-PATENT-CLASS-250-344 US-PATENT-CLASS-356-204 US-PATENT-CLASS-356-246 US-PATENT-4,067,653	N78-19599*	c 44	NASA-CASE-LEW-12159-1 US-PATENT-APPL-SN-643041 US-PATENT-CLASS-126-270 US-PATENT-CLASS-427-160 US-PATENT-CLASS-428-652 US-PATENT-CLASS-428-667 US-PATENT-CLASS-428-679 US-PATENT-4,055,707			
N78-18066*	c 07	NASA-CASE-LEW-12389-2 US-PATENT-APPL-SN-628221 US-PATENT-CLASS-244-53A US-PATENT-CLASS-244-54 US-PATENT-CLASS-60-226R US-PATENT-CLASS-60-39.31 US-PATENT-4,055,041	N78-19920*	c 73	NASA-CASE-HQN-10841-1 US-PATENT-APPL-SN-560891 US-PATENT-CLASS-176-39 US-PATENT-CLASS-330-4.3 US-PATENT-4,075,057			
N78-18067*	c 07	NASA-CASE-LEW-12917-1 US-PATENT-APPL-SN-583055 US-PATENT-CLASS-60-204						

N78-25148*	c 25	US-PATENT-4,083,520	N78-27176* #	c 20	NASA-CASE-MFS-23642-2	N78-28594*	c 44	US-PATENT-4,088,951
		NASA-CASE-LEW-12465-1	N78-27180*	c 24	US-PATENT-APPL-SN-923758			NASA-CASE-NPO-13821-1
		US-PATENT-APPL-SN-692413			NASA-CASE-ARC-11043-1			US-PATENT-APPL-SN-688852
		US-PATENT-CLASS-250-423P			US-PATENT-APPL-SN-753964			US-PATENT-CLASS-343-113R
		US-PATENT-CLASS-250-528			US-PATENT-CLASS-260-33.6EP			US-PATENT-CLASS-343-119
		US-PATENT-CLASS-250-531			US-PATENT-CLASS-260-33.6PQ			US-PATENT-CLASS-343-16M
		US-PATENT-CLASS-55-100			US-PATENT-CLASS-260-33.8EP	N78-28913*	c 73	US-PATENT-4,088,999
		US-PATENT-CLASS-55-101			US-PATENT-CLASS-260-33.8UA			NASA-CASE-NPO-13114-2
		US-PATENT-CLASS-55-2			US-PATENT-CLASS-260-37EP			US-PATENT-APPL-SN-294738
		US-PATENT-4,085,332			US-PATENT-CLASS-260-42.43			US-PATENT-APPL-SN-634214
N78-25256*	c 31	NASA-CASE-NPO-13839-1			US-PATENT-CLASS-260-45.7R			US-PATENT-CLASS-176-22
		US-PATENT-APPL-SN-712981			US-PATENT-CLASS-260-45.75W			US-PATENT-CLASS-176-33
		US-PATENT-CLASS-250-332			US-PATENT-CLASS-260-45.85N			US-PATENT-CLASS-176-39
		US-PATENT-CLASS-313-22			US-PATENT-CLASS-260-45.9R			US-PATENT-4,085,004
		US-PATENT-CLASS-62-514R			US-PATENT-CLASS-427-386	N78-29421*	c 35	NASA-CASE-NPO-11954-1
		US-PATENT-4,077,231			US-PATENT-CLASS-427-388A			US-PATENT-APPL-SN-229287
N78-25319*	c 33	NASA-CASE-NPO-13909-1			US-PATENT-CLASS-428-313			US-PATENT-CLASS-179-100.2CH
		US-PATENT-APPL-SN-744477			US-PATENT-CLASS-428-332			US-PATENT-CLASS-340-174.1M
		US-PATENT-CLASS-324-57DE			US-PATENT-CLASS-428-921			US-PATENT-CLASS-340-174YC
		US-PATENT-CLASS-324-57SS			US-PATENT-4,088,806			US-PATENT-CLASS-350-151
		US-PATENT-CLASS-324-58A	N78-27184* #	c 24	NASA-CASE-ARC-11040-2			US-PATENT-3,775,570
		US-PATENT-4,084,132			US-PATENT-APPL-SN-920878	N78-31129*	c 09	NASA-CASE-MSC-19706-1
N78-25350*	c 34	NASA-CASE-MSC-19568-1	N78-27226*	c 25	NASA-CASE-LEW-10518-3			US-PATENT-APPL-SN-767911
		US-PATENT-APPL-SN-681000			US-PATENT-APPL-SN-394207			US-PATENT-CLASS-239-265.25
		US-PATENT-CLASS-428-913			US-PATENT-CLASS-176-11			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-428-93			US-PATENT-CLASS-176-16			US-PATENT-4,091,665
		US-PATENT-CLASS-428-94			US-PATENT-CLASS-250-400	N78-31232*	c 27	NASA-CASE-ARC-11008-1
		US-PATENT-CLASS-428-95			US-PATENT-CLASS-250-429			US-PATENT-APPL-SN-708951
		US-PATENT-CLASS-428-96			US-PATENT-CLASS-250-492B			US-PATENT-CLASS-260-2.5N
		US-PATENT-CLASS-428-97			US-PATENT-4,088,532			US-PATENT-CLASS-260-47CP
		US-PATENT-CLASS-49-DIG.1	N78-27326*	c 33	NASA-CASE-MFS-23312-1			US-PATENT-CLASS-260-63N
		US-PATENT-CLASS-49-479			US-PATENT-APPL-SN-699012			US-PATENT-CLASS-260-78.41
		US-PATENT-CLASS-49-485			US-PATENT-CLASS-29-571			US-PATENT-4,092,274
		US-PATENT-4,078,110			US-PATENT-CLASS-29-578	N78-31233*	c 27	NASA-CASE-ARC-11057-1
N78-25351*	c 34	NASA-CASE-LEW-12718-1			US-PATENT-CLASS-357-91			US-PATENT-APPL-SN-807762
		US-PATENT-APPL-SN-779428			US-PATENT-4,087,902			US-PATENT-CLASS-350-165
		US-PATENT-CLASS-137-484.2	N78-27357*	c 34	NASA-CASE-LEW-11877-1			US-PATENT-CLASS-350-175NG
		US-PATENT-CLASS-137-501			US-PATENT-APPL-SN-708660			US-PATENT-CLASS-427-164
		US-PATENT-CLASS-137-505.16			US-PATENT-CLASS-431-10			US-PATENT-CLASS-427-40
		US-PATENT-4,084,612			US-PATENT-CLASS-431-328			US-PATENT-CLASS-427-41
N78-25391*	c 35	NASA-CASE-NPO-13948-1			US-PATENT-CLASS-431-7			US-PATENT-CLASS-428-411
		US-PATENT-APPL-SN-752748			US-PATENT-CLASS-60-39.65			US-PATENT-CLASS-428-412
		US-PATENT-CLASS-204-195W			US-PATENT-CLASS-60-39.69R			US-PATENT-CLASS-428-422
		US-PATENT-CLASS-73-336.5			US-PATENT-4,087,962			US-PATENT-CLASS-428-447
		US-PATENT-4,083,765	N78-27384*	c 35	NASA-CASE-LAR-11973-1			US-PATENT-CLASS-428-515
N78-25426*	c 37	NASA-CASE-MSC-12731-1			US-PATENT-APPL-SN-821681			US-PATENT-CLASS-428-523
		US-PATENT-APPL-SN-690816			US-PATENT-CLASS-73-170A			US-PATENT-CLASS-428-538
		US-PATENT-CLASS-137-505.25			US-PATENT-CLASS-73-425.4R			US-PATENT-4,091,166
		US-PATENT-CLASS-137-625.3			US-PATENT-CLASS-73-61R	N78-31255*	c 28	NASA-CASE-NPO-14103-1
		US-PATENT-CLASS-137-625.38			US-PATENT-4,089,209			US-PATENT-APPL-SN-797210
		US-PATENT-4,083,380	N78-27402*	c 36	NASA-CASE-NPO-13945-1			US-PATENT-CLASS-149-105
N78-25527*	c 44	NASA-CASE-LEW-12552-1			US-PATENT-APPL-SN-704180			US-PATENT-CLASS-149-111
		US-PATENT-APPL-SN-770869			US-PATENT-CLASS-331-94.5G			US-PATENT-CLASS-149-19.4
		US-PATENT-CLASS-136-89CC			US-PATENT-CLASS-331-94.5P			US-PATENT-CLASS-149-19.8
		US-PATENT-CLASS-29-572			US-PATENT-CLASS-331-94.5PE			US-PATENT-CLASS-149-88
		US-PATENT-CLASS-357-30			US-PATENT-4,088,965			US-PATENT-CLASS-149-92
		US-PATENT-CLASS-357-65	N78-27423*	c 37	NASA-CASE-MSC-16270-1			US-PATENT-CLASS-149-93
		US-PATENT-CLASS-357-67			US-PATENT-APPL-SN-837260			US-PATENT-4,092,188
		US-PATENT-CLASS-427-261			US-PATENT-CLASS-269-21	N78-31321*	c 32	NASA-CASE-NPO-14022-1
		US-PATENT-CLASS-427-75			US-PATENT-CLASS-269-266			US-PATENT-APPL-SN-780728
		US-PATENT-4,082,569			US-PATENT-4,088,312			US-PATENT-CLASS-343-781CA
N78-25528*	c 44	NASA-CASE-LEW-12185-1	N78-27424*	c 37	NASA-CASE-LAR-11889-2			US-PATENT-CLASS-343-782
		US-PATENT-APPL-SN-746269			US-PATENT-APPL-SN-662182			US-PATENT-CLASS-343-837
		US-PATENT-CLASS-136-89H			US-PATENT-APPL-SN-807703			US-PATENT-4,092,648
		US-PATENT-CLASS-136-89P			US-PATENT-CLASS-308-10	N78-31426*	c 37	NASA-CASE-GSC-11883-2
		US-PATENT-CLASS-29-572			US-PATENT-CLASS-73-178R			US-PATENT-APPL-SN-596787
		US-PATENT-CLASS-29-628			US-PATENT-4,088,018			US-PATENT-APPL-SN-747675
		US-PATENT-4,083,097	N78-27425*	c 37	NASA-CASE-ARC-10981-1			US-PATENT-CLASS-60-527
N78-25529*	c 44	NASA-CASE-LEW-12541-1			US-PATENT-APPL-SN-738218			US-PATENT-CLASS-74-100R
		US-PATENT-APPL-SN-790637			US-PATENT-CLASS-248-178			US-PATENT-4,010,455
		US-PATENT-CLASS-136-89CC			US-PATENT-CLASS-248-186			US-PATENT-4,092,874
		US-PATENT-CLASS-136-89H			US-PATENT-4,088,291	N78-31525*	c 44	NASA-CASE-NPO-13581-2
		US-PATENT-CLASS-136-89P			US-PATENT-APPL-SN-709415			US-PATENT-APPL-SN-590975
		US-PATENT-CLASS-156-633	N78-27515*	c 44	NASA-CASE-NPO-12148-1			US-PATENT-APPL-SN-811815
		US-PATENT-CLASS-29-572			US-PATENT-CLASS-136-89P			US-PATENT-CLASS-126-271
		US-PATENT-4,084,985			US-PATENT-4,089,705			US-PATENT-CLASS-237-1A
N78-25530*	c 44	NASA-CASE-LEW-12649-1	N78-27733*	c 51	NASA-CASE-ARC-10917-1			US-PATENT-4,091,800
		US-PATENT-APPL-SN-720521			US-PATENT-APPL-SN-672223	N78-31526*	c 44	NASA-CASE-NPO-13813-1
		US-PATENT-CLASS-427-385B			US-PATENT-CLASS-119-29			NASA-CASE-NPO-13914-1
		US-PATENT-CLASS-427-385C			US-PATENT-4,088,094			US-PATENT-APPL-SN-765139
		US-PATENT-CLASS-429-254	N78-27904*	c 74	NASA-CASE-LAR-11869-1			US-PATENT-CLASS-126-270
		US-PATENT-4,085,241			US-PATENT-APPL-SN-740155			US-PATENT-CLASS-126-271
N78-25531*	c 44	NASA-CASE-MFS-23270-1			US-PATENT-CLASS-356-120			US-PATENT-CLASS-350-299
		US-PATENT-APPL-SN-744573			US-PATENT-CLASS-356-167			US-PATENT-4,091,798
		US-PATENT-CLASS-320-13			US-PATENT-4,088,408	N78-31527*	c 44	NASA-CASE-NPO-13937-1
		US-PATENT-CLASS-320-15	N78-27913*	c 75	NASA-CASE-MFS-22906-1			US-PATENT-APPL-SN-718137
		US-PATENT-CLASS-320-32			US-PATENT-APPL-SN-684807			US-PATENT-CLASS-201-17
		US-PATENT-CLASS-320-39			US-PATENT-CLASS-29-81C			US-PATENT-CLASS-44-1R
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-313-231.3			US-PATENT-CLASS-44-2
		US-PATENT-4,084,124			US-PATENT-CLASS-315-111.2			US-PATENT-4,081,250
N78-27121*	c 07	NASA-CASE-LAR-11919-1			US-PATENT-4,088,926	N78-31735*	c 54	NASA-CASE-ARC-11058-1
		US-PATENT-APPL-SN-672221	N78-28411*	c 35	NASA-CASE-KSC-11035-1			US-PATENT-APPL-SN-753965
		US-PATENT-CLASS-239-265.25			US-PATENT-APPL-SN-780874			US-PATENT-CLASS-2-2.1A
		US-PATENT-CLASS-239-265.33			US-PATENT-CLASS-324-130			US-PATENT-CLASS-285-235
		US-PATENT-CLASS-60-230			US-PATENT-CLASS-324-32	N78-31736*	c 54	US-PATENT-4,091,464
		US-PATENT-4,088,270			US-PATENT-CLASS-324-74			NASA-CASE-ARC-11100-1

		US-PATENT-APPL-SN-780569	N78-32340*	c 33	NASA-CASE-GSC-12146-1	US-PATENT-CLASS-123-3
		US-PATENT-CLASS-2-2.1A			US-PATENT-APPL-SN-782480	US-PATENT-4,112,875
N78-32086*	c 05	US-PATENT-4,091,465			US-PATENT-CLASS-325-159	N78-33913* c 74 NASA-CASE-NPO-10233-1
		NASA-CASE-LAR-11932-1			US-PATENT-CLASS-325-187	US-PATENT-APPL-SN-716885
		US-PATENT-APPL-SN-718244			US-PATENT-CLASS-333-17R	US-PATENT-CLASS-250-218
		US-PATENT-CLASS-244-218			US-PATENT-CLASS-333-81R	US-PATENT-CLASS-250-227
		US-PATENT-CLASS-244-45A			US-PATENT-4,092,617	US-PATENT-CLASS-250-239
		US-PATENT-CLASS-244-46	N78-32341*	c 33	NASA-CASE-LEW-12791-1	US-PATENT-CLASS-356-208
		US-PATENT-4,093,156			US-PATENT-APPL-SN-801432	US-PATENT-3,573,470
N78-32168* #	c 15	NASA-CASE-LAR-12264-1			US-PATENT-CLASS-363-101	N79-10057* c 07 NASA-CASE-LEW-12232-1
		US-PATENT-APPL-SN-943087			US-PATENT-CLASS-363-16	US-PATENT-APPL-SN-776029
N78-32179*	c 20	NASA-CASE-NPO-11458A			US-PATENT-CLASS-363-60	US-PATENT-CLASS-415-115
		US-PATENT-APPL-SN-48621			US-PATENT-4,092,712	US-PATENT-CLASS-415-116
		US-PATENT-CLASS-102-103	N78-32395*	c 35	NASA-CASE-ARC-11036-1	US-PATENT-CLASS-60-39.14
		US-PATENT-CLASS-149-19.4			US-PATENT-APPL-SN-740457	US-PATENT-4,117,669
		US-PATENT-CLASS-149-42			US-PATENT-CLASS-33-366	N79-10162* c 25 NASA-CASE-ARC-11053-1
		US-PATENT-CLASS-149-43			US-PATENT-4,094,073	US-PATENT-APPL-SN-814378
		US-PATENT-CLASS-149-44	N78-32396*	c 35	NASA-CASE-MFS-23363-1	US-PATENT-CLASS-23-252R
		US-PATENT-CLASS-149-76			US-PATENT-APPL-SN-730046	US-PATENT-CLASS-423-581
		US-PATENT-CLASS-149-83			US-PATENT-CLASS-324-173	US-PATENT-4,101,644
		US-PATENT-CLASS-149-85			US-PATENT-CLASS-324-207	N79-10163* c 25 NASA-CASE-NPO-13274-1
		US-PATENT-4,116,131			US-PATENT-4,093,917	US-PATENT-APPL-SN-406296
N78-32229*	c 26	NASA-CASE-ARC-10992-1	N78-32397*	c 35	NASA-CASE-LAR-11617-2	US-PATENT-CLASS-204-180S
		US-PATENT-APPL-SN-760810			US-PATENT-APPL-SN-547072	US-PATENT-CLASS-204-299
		US-PATENT-CLASS-204-164			US-PATENT-APPL-SN-668771	US-PATENT-3,932,262
		US-PATENT-CLASS-204-175			US-PATENT-CLASS-324-249	N79-10262* c 32 NASA-CASE-NPO-13941-1
		US-PATENT-CLASS-423-582			US-PATENT-4,088,954	US-PATENT-APPL-SN-774384
		US-PATENT-CLASS-423-583	N78-32447*	c 38	NASA-CASE-MFS-23114-1	US-PATENT-CLASS-307-233R
		US-PATENT-4,094,758			US-PATENT-APPL-SN-686331	US-PATENT-CLASS-324-77B
N78-32256*	c 27	NASA-CASE-MS-14903-1			US-PATENT-CLASS-350-3.5	US-PATENT-CLASS-324-77C
		US-PATENT-APPL-SN-706424			US-PATENT-CLASS-356-72	US-PATENT-4,118,666
		US-PATENT-CLASS-260-2P			US-PATENT-CLASS-356-73	N79-10263* c 32 NASA-CASE-MS-12743-1
		US-PATENT-CLASS-260-551P			US-PATENT-CLASS-73-603	US-PATENT-APPL-SN-765167
		US-PATENT-CLASS-260-606-5P			US-PATENT-4,093,382	US-PATENT-CLASS-325-41
		US-PATENT-CLASS-260-959	N78-32539*	c 44	NASA-CASE-LAR-11208-1	US-PATENT-CLASS-340-146.1AX
		US-PATENT-CLASS-526-13			US-PATENT-APPL-SN-710036	US-PATENT-CLASS-340-146.1E
		US-PATENT-CLASS-526-23			US-PATENT-CLASS-417-88	US-PATENT-4,100,531
		US-PATENT-CLASS-526-27			US-PATENT-CLASS-60-39.07	N79-10264* c 32 NASA-CASE-MFS-22234-1
		US-PATENT-CLASS-526-275			US-PATENT-CLASS-60-39.14	US-PATENT-APPL-SN-730778
		US-PATENT-CLASS-526-276			US-PATENT-CLASS-60-39.33	US-PATENT-CLASS-343-6R
		US-PATENT-CLASS-526-278			US-PATENT-CLASS-98-1.5	US-PATENT-CLASS-343-9
		US-PATENT-CLASS-526-49			US-PATENT-4,091,613	US-PATENT-4,118,701
		US-PATENT-CLASS-526-50	N78-32542*	c 44	NASA-CASE-KSC-11034-1	N79-10337* c 33 NASA-CASE-KSC-11018-1
		US-PATENT-CLASS-544-195			US-PATENT-APPL-SN-782481	US-PATENT-APPL-SN-782693
		US-PATENT-4,092,466			US-PATENT-CLASS-60-641	US-PATENT-CLASS-324-133
N78-32260*	c 27	NASA-CASE-ARC-11051-1			US-PATENT-CLASS-60-671	US-PATENT-CLASS-324-72
		US-PATENT-APPL-SN-736910			US-PATENT-4,087,975	US-PATENT-CLASS-324-96
		US-PATENT-CLASS-106-48	N78-32720*	c 54	NASA-CASE-MS-14805-1	US-PATENT-4,100,487
		US-PATENT-CLASS-106-54			US-PATENT-APPL-SN-688856	N79-10338* c 33 NASA-CASE-GSC-12228-1
		US-PATENT-CLASS-427-215			US-PATENT-CLASS-340-213R	US-PATENT-APPL-SN-858764
		US-PATENT-CLASS-427-376A			US-PATENT-CLASS-340-262	US-PATENT-CLASS-324-57R
		US-PATENT-CLASS-427-376B			US-PATENT-CLASS-340-279	US-PATENT-CLASS-324-83D
		US-PATENT-CLASS-427-379			US-PATENT-CLASS-340-285	US-PATENT-CLASS-324-85
		US-PATENT-CLASS-427-380			US-PATENT-CLASS-340-309.1	US-PATENT-CLASS-328-163
		US-PATENT-CLASS-428-312			US-PATENT-4,092,633	US-PATENT-4,118,665
		US-PATENT-CLASS-428-325	N78-32721*	c 54	NASA-CASE-ARC-11059-1	N79-10339* c 33 NASA-CASE-LEW-12013-1
		US-PATENT-CLASS-428-331			US-PATENT-APPL-SN-753978	US-PATENT-APPL-SN-768795
		US-PATENT-CLASS-428-341			US-PATENT-CLASS-128-142.7	US-PATENT-CLASS-301-82
		US-PATENT-CLASS-428-406			US-PATENT-CLASS-62-259	US-PATENT-CLASS-315-3.5
		US-PATENT-CLASS-428-427			US-PATENT-4,095,593	US-PATENT-CLASS-315-3.6
		US-PATENT-CLASS-428-428	N78-32848*	c 73	NASA-CASE-GSC-12083-1	US-PATENT-CLASS-330-43
		US-PATENT-CLASS-428-446			US-PATENT-APPL-SN-643897	US-PATENT-4,118,671
		US-PATENT-CLASS-428-920			US-PATENT-CLASS-350-170	N79-10389* c 35 NASA-CASE-MFS-23461-1
		US-PATENT-CLASS-65-30R			US-PATENT-CLASS-350-173	US-PATENT-APPL-SN-694406
		US-PATENT-CLASS-65-60D			US-PATENT-CLASS-350-174	US-PATENT-CLASS-250-475
		US-PATENT-4,093,771			US-PATENT-CLASS-350-286	US-PATENT-CLASS-252-301.1R
N78-32261*	c 27	NASA-CASE-LAR-11828-1			US-PATENT-CLASS-350-320	US-PATENT-CLASS-252-301.16
		US-PATENT-APPL-SN-448321			US-PATENT-4,093,354	US-PATENT-CLASS-96-27R
		US-PATENT-APPL-SN-562992	N78-32854*	c 74	NASA-CASE-ARC-11039-1	US-PATENT-CLASS-96-60R
		US-PATENT-CLASS-260-47CP			US-PATENT-APPL-SN-750655	US-PATENT-4,101,780
		US-PATENT-CLASS-260-49			US-PATENT-CLASS-351-166	N79-10390* c 35 NASA-CASE-LAR-12260-1
		US-PATENT-CLASS-260-63N			US-PATENT-CLASS-427-164	US-PATENT-CLASS-73-579
		US-PATENT-CLASS-260-63R			US-PATENT-CLASS-427-302	US-PATENT-CLASS-73-589
		US-PATENT-CLASS-260-65			US-PATENT-CLASS-427-322	US-PATENT-4,117,731
		US-PATENT-CLASS-260-78TF			US-PATENT-CLASS-427-38	N79-10391* c 35 NASA-CASE-NPO-13862-1
		US-PATENT-4,094,862			US-PATENT-CLASS-427-387	US-PATENT-APPL-SN-744577
N78-32262*	c 27	NASA-CASE-MS-14331-3			US-PATENT-CLASS-427-41	US-PATENT-CLASS-324-77K
		US-PATENT-APPL-SN-657998			US-PATENT-CLASS-427-44	US-PATENT-CLASS-343-17.2PC
		US-PATENT-CLASS-264-130			US-PATENT-CLASS-428-412	US-PATENT-CLASS-343-5CM
		US-PATENT-CLASS-264-184			US-PATENT-CLASS-428-447	US-PATENT-CLASS-343-5W
		US-PATENT-CLASS-264-211			US-PATENT-4,096,315	US-PATENT-4,101,891
		US-PATENT-CLASS-264-236	N78-33101*	c 07	NASA-CASE-LEW-12496-1	N79-10418* c 37 NASA-CASE-LEW-12569-1
		US-PATENT-4,094,943			US-PATENT-APPL-SN-668971	US-PATENT-APPL-SN-792069
N78-32338*	c 33	NASA-CASE-GSC-12137-1			US-PATENT-CLASS-29-463	US-PATENT-CLASS-308-DIG.1
		US-PATENT-APPL-SN-808510			US-PATENT-CLASS-416-214A	US-PATENT-CLASS-308-121
		US-PATENT-CLASS-329-124			US-PATENT-CLASS-416-244A	US-PATENT-CLASS-308-160
		US-PATENT-CLASS-331-12			US-PATENT-CLASS-74-572	US-PATENT-CLASS-308-163
		US-PATENT-CLASS-331-4			US-PATENT-4,097,194	US-PATENT-CLASS-308-172
		US-PATENT-CLASS-331-64	N78-33228*	c 27	NASA-CASE-NPO-08835-1	US-PATENT-CLASS-308-5R
		US-PATENT-4,092,606			US-PATENT-APPL-SN-588721	US-PATENT-CLASS-308-9
N78-32339*	c 33	NASA-CASE-GSC-12145-1			US-PATENT-CLASS-260-28.5	US-PATENT-4,099,799
		US-PATENT-APPL-SN-769149			US-PATENT-3,527,724	N79-10419* c 37 NASA-CASE-FRC-10111-1
		US-PATENT-CLASS-307-229	N78-33526*	c 44	NASA-CASE-NPO-13763-1	US-PATENT-APPL-SN-713027
		US-PATENT-CLASS-307-230			US-PATENT-APPL-SN-718268	US-PATENT-CLASS-30-90.6
		US-PATENT-CLASS-328-145			US-PATENT-CLASS-123-DIG.12	US-PATENT-CLASS-81-9.5R
		US-PATENT-4,091,329			US-PATENT-CLASS-123-1A	US-PATENT-4,117,749

N79-10420*	c 37	NASA-CASE-NPO-14014-1 US-PATENT-APPL-SN-826204 US-PATENT-CLASS-188-1C US-PATENT-CLASS-256-1 US-PATENT-CLASS-256-13.1 US-PATENT-4,118,014	N79-11313*	c 33	NASA-CASE-MSC-16461-1 US-PATENT-APPL-SN-858765 US-PATENT-CLASS-307-232 US-PATENT-CLASS-328-133 US-PATENT-CLASS-331-1A US-PATENT-CLASS-331-14 US-PATENT-CLASS-331-23 US-PATENT-CLASS-331-27 US-PATENT-4,119,926	N79-11865*	c 74	NASA-CASE-MFS-23513-1 US-PATENT-APPL-SN-755323 US-PATENT-CLASS-356-124 US-PATENT-CLASS-356-210 US-PATENT-4,102,580
N79-10421*	c 37	NASA-CASE-MFS-23620-1 US-PATENT-APPL-SN-799023 US-PATENT-CLASS-219-124.2.2 US-PATENT-CLASS-219-124.32 US-PATENT-CLASS-219-125.1 US-PATENT-CLASS-228-8 US-PATENT-4,118,620	N79-11314*	c 33	NASA-CASE-NPO-13064-1 US-PATENT-APPL-SN-297436 US-PATENT-CLASS-357-22 US-PATENT-3,860,946	N79-11920*	c 76	NASA-CASE-NPO-13918-1 US-PATENT-APPL-SN-706073 US-PATENT-CLASS-156-DIG.64 US-PATENT-CLASS-156-DIG.65 US-PATENT-CLASS-156-DIG.88 US-PATENT-CLASS-156-608 US-PATENT-CLASS-156-617SP US-PATENT-4,121,965
N79-10422*	c 37	NASA-CASE-MFS-23051-1 US-PATENT-APPL-SN-632111 US-PATENT-CLASS-15-230.16 US-PATENT-CLASS-15-230.17 US-PATENT-CLASS-29-125 US-PATENT-CLASS-428-133 US-PATENT-CLASS-74-572 US-PATENT-4,098,142	N79-11315*	c 33	NASA-CASE-KSC-11031-1 US-PATENT-APPL-SN-782482 US-PATENT-CLASS-324-102 US-PATENT-CLASS-324-113 US-PATENT-CLASS-324-133 US-PATENT-4,105,966	N79-12061*	c 05	NASA-CASE-FRC-10092-1 US-PATENT-APPL-SN-831634 US-PATENT-CLASS-244-48 US-PATENT-CLASS-244-82 US-PATENT-CLASS-244-90R US-PATENT-4,124,180
N79-10513*	c 44	NASA-CASE-NPO-13732-1 US-PATENT-APPL-SN-765138 US-PATENT-CLASS-429-13 US-PATENT-CLASS-429-41 US-PATENT-CLASS-429-42 US-PATENT-4,100,331	N79-11402*	c 37	NASA-CASE-MSC-16043-1 US-PATENT-APPL-SN-750792 US-PATENT-CLASS-137-614.06 US-PATENT-CLASS-137-637.05 US-PATENT-CLASS-251-149.9 US-PATENT-CLASS-285-326 US-PATENT-CLASS-285-359 US-PATENT-4,103,712	N79-12221*	c 27	NASA-CASE-MSC-12619-2 US-PATENT-APPL-SN-555750 US-PATENT-APPL-SN-766913 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-158 US-PATENT-CLASS-244-160 US-PATENT-CLASS-428-189 US-PATENT-CLASS-428-212 US-PATENT-CLASS-428-280 US-PATENT-CLASS-428-285 US-PATENT-CLASS-428-286 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-77 US-PATENT-CLASS-428-920 US-PATENT-4,124,732
N79-10693*	c 51	NASA-CASE-MSC-16098-1 US-PATENT-APPL-SN-792068 US-PATENT-CLASS-210-23F US-PATENT-CLASS-210-433M US-PATENT-CLASS-210-96M US-PATENT-4,118,315	N79-11403*	c 37	NASA-CASE-LEW-12793-1 US-PATENT-APPL-SN-745766 US-PATENT-CLASS-60-39.08 US-PATENT-CLASS-60-39.28R US-PATENT-CLASS-60-39.66 US-PATENT-4,104,873	N79-12321*	c 33	NASA-CASE-GSC-12190-1 US-PATENT-APPL-SN-817413 US-PATENT-CLASS-357-22 US-PATENT-CLASS-357-23 US-PATENT-CLASS-357-41 US-PATENT-CLASS-357-45 US-PATENT-CLASS-357-55 US-PATENT-4,119,996
N79-10694*	c 51	NASA-CASE-GSC-12173-1 US-PATENT-APPL-SN-806440 US-PATENT-CLASS-165-2 US-PATENT-CLASS-165-30 US-PATENT-CLASS-195-1.8 US-PATENT-CLASS-219-299 US-PATENT-CLASS-219-302 US-PATENT-CLASS-62-514R US-PATENT-CLASS-62-78 US-PATENT-4,117,881	N79-11404*	c 37	NASA-CASE-MFS-23447-1 US-PATENT-APPL-SN-736909 US-PATENT-CLASS-308-194 US-PATENT-CLASS-308-72 US-PATENT-4,105,261	N79-12331*	c 33	NASA-CASE-MSC-12662-1 US-PATENT-APPL-SN-540779 US-PATENT-CLASS-428-109 US-PATENT-CLASS-428-247 US-PATENT-CLASS-428-258 US-PATENT-CLASS-428-259 US-PATENT-4,107,363
N79-10724*	c 52	NASA-CASE-ARC-10985-1 US-PATENT-APPL-SN-769148 US-PATENT-CLASS-128-2.05R US-PATENT-CLASS-358-111 US-PATENT-CLASS-358-96 US-PATENT-CLASS-364-417 US-PATENT-4,101,961	N79-11405*	c 37	NASA-CASE-NPO-13828-1 US-PATENT-APPL-SN-672636 US-PATENT-CLASS-123-148DC US-PATENT-CLASS-123-148E US-PATENT-CLASS-315-209CD US-PATENT-CLASS-315-209SC US-PATENT-CLASS-315-241R US-PATENT-4,122,816	N79-12359*	c 34	NASA-CASE-LAR-11729-1 US-PATENT-APPL-SN-856461 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-194VS US-PATENT-4,122,712
N79-10969*	c 89	NASA-CASE-MFS-23675-1 US-PATENT-APPL-SN-820498 US-PATENT-CLASS-350-294 US-PATENT-CLASS-350-55 US-PATENT-4,101,195	N79-11467*	c 44	NASA-CASE-LEW-12819-1 US-PATENT-APPL-SN-803823 US-PATENT-CLASS-136-89CC US-PATENT-CLASS-136-89SJ US-PATENT-CLASS-357-15 US-PATENT-CLASS-357-16 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-65 US-PATENT-CLASS-357-67 US-PATENT-4,104,084	N79-12541*	c 44	NASA-CASE-NPO-14100-1 US-PATENT-APPL-SN-861391 US-PATENT-CLASS-324-20R US-PATENT-CLASS-324-22 US-PATENT-4,122,383
N79-11108*	c 18	NASA-CASE-MFS-23579-1 US-PATENT-APPL-SN-829316 US-PATENT-CLASS-228-13 US-PATENT-CLASS-228-15.1 US-PATENT-CLASS-228-173 US-PATENT-CLASS-244-159 US-PATENT-4,122,991	N79-11468*	c 44	NASA-CASE-LEW-12775-1 US-PATENT-APPL-SN-799026 US-PATENT-CLASS-136-89 US-PATENT-CLASS-148-188 US-PATENT-CLASS-29-572 US-PATENT-CLASS-427-75 US-PATENT-4,104,091	N79-12584*	c 45	NASA-CASE-MSC-16258-1 US-PATENT-APPL-SN-853705 US-PATENT-CLASS-210-50 US-PATENT-CLASS-210-60 US-PATENT-CLASS-210-63R US-PATENT-CLASS-423-242 US-PATENT-CLASS-55-73 US-PATENT-4,123,355
N79-11151*	c 25	NASA-CASE-NPO-13958-1 US-PATENT-APPL-SN-745384 US-PATENT-CLASS-126-91A US-PATENT-CLASS-431-10 US-PATENT-CLASS-431-208 US-PATENT-CLASS-432-223 US-PATENT-CLASS-432-29 US-PATENT-4,104,018	N79-11469*	c 44	NASA-CASE-MFS-23518-1 US-PATENT-APPL-SN-829390 US-PATENT-CLASS-204-32 US-PATENT-CLASS-204-33 US-PATENT-CLASS-204-37R US-PATENT-CLASS-204-38B US-PATENT-4,104,134	N79-12694*	c 52	NASA-CASE-NPO-13913-1 US-PATENT-APPL-SN-687251 US-PATENT-CLASS-128-2R US-PATENT-CLASS-364-120 US-PATENT-CLASS-364-300 US-PATENT-CLASS-364-415 US-PATENT-CLASS-364-900 US-PATENT-4,122,518
N79-11152*	c 25	NASA-CASE-NPO-13904-1 US-PATENT-APPL-SN-730468 US-PATENT-CLASS-208-10 US-PATENT-CLASS-208-8 US-PATENT-CLASS-302-66 US-PATENT-CLASS-44-51 US-PATENT-4,121,995	N79-11470*	c 44	NASA-CASE-NPO-14126-1 US-PATENT-APPL-SN-838336 US-PATENT-CLASS-204-157.1R US-PATENT-CLASS-250-527 US-PATENT-4,105,517	N79-12890*	c 74	NASA-CASE-KSC-11010-1 US-PATENT-APPL-SN-753977 US-PATENT-CLASS-200-46 US-PATENT-CLASS-200-61 US-PATENT-CLASS-250-214AL US-PATENT-CLASS-250-214R US-PATENT-CLASS-315-153 US-PATENT-4,122,334
N79-11215* #	c 27	NASA-CASE-ARC-11170-1 US-PATENT-APPL-SN-956161	N79-11471*	c 44	NASA-CASE-NPO-13817-1 US-PATENT-APPL-SN-801452 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-299 US-PATENT-4,122,833	N79-13214*	c 32	NASA-CASE-NPO-14009-1 US-PATENT-APPL-SN-818917 US-PATENT-CLASS-343-117R US-PATENT-CLASS-343-118 US-PATENT-CLASS-343-7.4 US-PATENT-4,122,454
N79-11231*	c 28	NASA-CASE-NPO-13858-1 NASA-CASE-NPO-13859-1 US-PATENT-APPL-SN-740153 US-PATENT-CLASS-102-28R US-PATENT-4,103,619	N79-11472*	c 44	NASA-CASE-LEW-12552-2 US-PATENT-APPL-SN-844346 US-PATENT-CLASS-29-572 US-PATENT-CLASS-427-123 US-PATENT-CLASS-427-126 US-PATENT-CLASS-427-261 US-PATENT-CLASS-427-343 US-PATENT-CLASS-427-398A US-PATENT-CLASS-427-399 US-PATENT-CLASS-427-75	N79-13288*	c 34	NASA-CASE-LEW-12252-1 US-PATENT-APPL-SN-559847 US-PATENT-CLASS-165-169
N79-11246*	c 31	NASA-CASE-LAR-12147-1 US-PATENT-APPL-SN-733825 US-PATENT-CLASS-73-159 US-PATENT-CLASS-73-95 US-PATENT-4,103,550						
N79-11264*	c 32	NASA-CASE-MSC-14939-1 US-PATENT-APPL-SN-765165 US-PATENT-CLASS-343-844 US-PATENT-CLASS-343-854 US-PATENT-4,119,972						
N79-11265*	c 32	NASA-CASE-GSC-12150-1 US-PATENT-APPL-SN-736286						

		US-PATENT-CLASS-239-127.1			US-PATENT-APPL-SN-782464			US-PATENT-CLASS-126-271
		US-PATENT-CLASS-60-267			US-PATENT-CLASS-329-122			US-PATENT-CLASS-350-292
		US-PATENT-4,107,919			US-PATENT-CLASS-343-14			US-PATENT-CLASS-350-293
N79-13289*	c 34	NASA-CASE-LEW-12441-1			US-PATENT-CLASS-364-458			US-PATENT-CLASS-350-320
		US-PATENT-APPL-SN-559846			US-PATENT-CLASS-364-604			US-PATENT-4,131,336
		US-PATENT-CLASS-165-146			US-PATENT-CLASS-364-728	N79-14749*	c 52	NASA-CASE-NPO-13930-1
		US-PATENT-CLASS-165-169			US-PATENT-4,112,497			US-PATENT-APPL-SN-700467
		US-PATENT-CLASS-239-127.1	N79-14268*	c 32	NASA-CASE-NPO-14019-1			US-PATENT-CLASS-128-214D
		US-PATENT-CLASS-60-267			US-PATENT-APPL-SN-843308			US-PATENT-CLASS-128-272
		US-PATENT-4,108,241			US-PATENT-CLASS-343-100CL			US-PATENT-CLASS-150-1
N79-13364*	c 37	NASA-CASE-LAR-10941-2			US-PATENT-CLASS-343-5CM			US-PATENT-CLASS-195-1.8
		US-PATENT-APPL-SN-395493			US-PATENT-4,132,989			US-PATENT-CLASS-206-439
		US-PATENT-CLASS-228-107	N79-14305*	c 33	NASA-CASE-KSC-11057-1			US-PATENT-CLASS-210-DIG.23
		US-PATENT-CLASS-228-2.5			US-PATENT-APPL-SN-835544			US-PATENT-CLASS-422-41
		US-PATENT-CLASS-29-421E			US-PATENT-CLASS-324-102			US-PATENT-CLASS-422-48
		US-PATENT-4,106,687			US-PATENT-CLASS-324-112			US-PATENT-CLASS-55-15.8
N79-13826*	c 72	NASA-CASE-NPO-13993-1			US-PATENT-CLASS-324-113	N79-14750*	c 52	US-PATENT-4,132,594
		US-PATENT-APPL-SN-782463			US-PATENT-CLASS-324-133			NASA-CASE-GSC-12046-1
		US-PATENT-CLASS-331-94.5L			US-PATENT-CLASS-324-72			US-PATENT-APPL-SN-680015
		US-PATENT-CLASS-331-94.5P			US-PATENT-4,112,357			US-PATENT-CLASS-195-103.5K
		US-PATENT-CLASS-331-94.5PE	N79-14345*	c 35	NASA-CASE-LEW-12661-1			US-PATENT-CLASS-195-103.5L
		US-PATENT-4,107,627			US-PATENT-APPL-SN-837796			US-PATENT-4,132,599
N79-13855*	c 74	NASA-CASE-MFS-23052-2			US-PATENT-CLASS-73-115	N79-14751*	c 52	NASA-CASE-NPO-13935-1
		US-PATENT-APPL-SN-590183			US-PATENT-4,111,041			NASA-CASE-NPO-13944-1
		US-PATENT-APPL-SN-772165	N79-14346*	c 35	NASA-CASE-LEW-12174-2			US-PATENT-APPL-SN-741749
		US-PATENT-CLASS-35-12C			US-PATENT-APPL-SN-667929			US-PATENT-CLASS-128-2V
		US-PATENT-CLASS-35-12N			US-PATENT-APPL-SN-853679			US-PATENT-CLASS-73-633
		US-PATENT-CLASS-358-104			US-PATENT-CLASS-136-202			US-PATENT-CLASS-73-644
		US-PATENT-4,106,218			US-PATENT-CLASS-136-236			US-PATENT-4,130,112
N79-14095*	c 07	NASA-CASE-LEW-13050-1	N79-14347*	c 35	US-PATENT-4,111,718	N79-14871*	c 71	NASA-CASE-LEW-12658-1
		US-PATENT-APPL-SN-513346			NASA-CASE-LAR-12230-1			US-PATENT-APPL-SN-702115
		US-PATENT-CLASS-416-157B			US-PATENT-APPL-SN-835628			US-PATENT-CLASS-181-190
		US-PATENT-CLASS-416-160			US-PATENT-CLASS-73-147			US-PATENT-CLASS-181-213
		US-PATENT-CLASS-416-162			US-PATENT-CLASS-73-4R			US-PATENT-CLASS-181-222
		US-PATENT-CLASS-416-167			US-PATENT-CLASS-73-714			US-PATENT-CLASS-181-293
		US-PATENT-4,124,330			US-PATENT-CLASS-73-721	N79-14891*	c 74	US-PATENT-4,106,587
N79-14096*	c 07	NASA-CASE-LEW-12389-3			US-PATENT-CLASS-73-756			NASA-CASE-GSC-12225-1
		US-PATENT-APPL-SN-552108			US-PATENT-4,111,058			US-PATENT-APPL-SN-823566
		US-PATENT-APPL-SN-753452	N79-14348*	c 35	NASA-CASE-NPO-13569-2			US-PATENT-CLASS-350-157
		US-PATENT-CLASS-137-15.1			US-PATENT-APPL-SN-565162			US-PATENT-4,129,357
		US-PATENT-CLASS-244-54			US-PATENT-APPL-SN-804035	N79-14906*	c 76	NASA-CASE-MFS-23541-1
		US-PATENT-CLASS-415-200			US-PATENT-CLASS-318-573			US-PATENT-APPL-SN-814005
		US-PATENT-CLASS-415-201			US-PATENT-CLASS-318-594			US-PATENT-CLASS-204-192C
		US-PATENT-CLASS-60-226A			US-PATENT-CLASS-318-640			US-PATENT-4,111,775</

			US-PATENT-CLASS-55-155	US-PATENT-APPL-SN-824024	N79-20857*	c 74	NASA-CASE-GSC-12263-1
			US-PATENT-CLASS-55-241	US-PATENT-CLASS-126-271			US-PATENT-APPL-SN-817415
			US-PATENT-CLASS-55-242	US-PATENT-CLASS-165-105			US-PATENT-CLASS-250-363R
			US-PATENT-CLASS-55-360	US-PATENT-CLASS-60-508			US-PATENT-CLASS-250-483
			US-PATENT-CLASS-55-407	US-PATENT-CLASS-60-572	N79-21083*	c 09	US-PATENT-4,142,101
			US-PATENT-4,134,744	US-PATENT-CLASS-60-641			NASA-CASE-LAR-10135-1
N79-17288*	c 43		NASA-CASE-NPO-13691-1	US-PATENT-4,135,367			US-PATENT-APPL-SN-648034
			US-PATENT-APPL-SN-664091	N79-18444*	c 44		US-PATENT-CLASS-73-147
			US-PATENT-CLASS-250-226				US-PATENT-3,453,878
			US-PATENT-CLASS-356-300	US-PATENT-APPL-SN-863770	N79-21084*	c 09	NASA-CASE-XLE-03186-1
			US-PATENT-CLASS-356-407	US-PATENT-CLASS-148-6.3			US-PATENT-APPL-SN-200770
			US-PATENT-CLASS-356-416	US-PATENT-CLASS-29-572			US-PATENT-CLASS-89-8
			US-PATENT-4,134,683	US-PATENT-CLASS-29-591			US-PATENT-3,224,337
N79-17313*	c 44		NASA-CASE-LEW-12358-1	US-PATENT-4,135,290	N79-21123*	c 20	NASA-CASE-XMF-06884-1
			US-PATENT-APPL-SN-776146	N79-18580*	c 52		US-PATENT-APPL-SN-579300
			US-PATENT-CLASS-429-101				US-PATENT-CLASS-164-105
			US-PATENT-CLASS-429-33	US-PATENT-APPL-SN-758721			US-PATENT-3,485,290
			US-PATENT-4,133,941	US-PATENT-CLASS-128-2.05Z	N79-21124*	c 20	NASA-CASE-XMF-05964-1
N79-17314*	c 44		NASA-CASE-NPO-13652-1	US-PATENT-CLASS-128-2.1A			US-PATENT-APPL-SN-578397
			US-PATENT-APPL-SN-809890	US-PATENT-CLASS-128-2V			US-PATENT-CLASS-60-243
			US-PATENT-CLASS-136-89CC	US-PATENT-4,109,644			US-PATENT-3,390,528
			US-PATENT-CLASS-136-89P	N79-19186*	c 32		NASA-CASE-WOO-00428-1
			US-PATENT-CLASS-29-572				US-PATENT-APPL-SN-112999
			US-PATENT-4,133,697	US-PATENT-CLASS-117-35			US-PATENT-CLASS-117-35
N79-17747*	c 85		NASA-CASE-NPO-13847-2	US-PATENT-3,173,697	N79-19195* #	c 32	NASA-CASE-NPO-14525-1
			NASA-CASE-NPO-13848-2	US-PATENT-APPL-SN-017885			US-PATENT-APPL-SN-017885
			US-PATENT-APPL-SN-750798	N79-19447*	c 44		NASA-CASE-XGS-00829-1
			US-PATENT-CLASS-162-14				US-PATENT-APPL-SN-286824
			US-PATENT-CLASS-162-29	US-PATENT-CLASS-269-153			US-PATENT-CLASS-269-153
			US-PATENT-CLASS-210-28	US-PATENT-3,262,694	N79-20179*	c 20	NASA-CASE-LEW-12780-1
			US-PATENT-CLASS-210-40				US-PATENT-APPL-SN-891370
			US-PATENT-CLASS-210-45	US-PATENT-CLASS-323-15			US-PATENT-CLASS-323-20
			US-PATENT-CLASS-210-66	US-PATENT-CLASS-323-20			US-PATENT-4,143,314
			US-PATENT-CLASS-210-67	N79-20296*	c 32		NASA-CASE-GSC-12148-1
			US-PATENT-CLASS-210-70				US-PATENT-APPL-SN-786322
			US-PATENT-CLASS-210-73R	US-PATENT-CLASS-325-58			US-PATENT-CLASS-325-58
			US-PATENT-4,134,786	US-PATENT-CLASS-325-63			US-PATENT-CLASS-343-179
N79-17847*	c 05		NASA-CASE-ARC-11045-1	US-PATENT-CLASS-343-179	N79-20297*	c 32	NASA-CASE-MS-16253-1
			US-PATENT-APPL-SN-818916	US-PATENT-4,140,972			US-PATENT-APPL-SN-831631
			US-PATENT-CLASS-416-132R	N79-20314*	c 33		NASA-CASE-GSC-12138-1
			US-PATENT-CLASS-416-138				US-PATENT-APPL-SN-779871
			US-PATENT-CLASS-416-51	US-PATENT-CLASS-310-231			US-PATENT-CLASS-310-46
			US-PATENT-CLASS-416-88	US-PATENT-CLASS-310-82			US-PATENT-CLASS-310-82
			US-PATENT-CLASS-416-89	US-PATENT-4,142,119	N79-20335*	c 34	NASA-CASE-NPO-14130-1
			US-PATENT-4,137,010	N79-20336*	c 34		US-PATENT-APPL-SN-847278
N79-17916*	c 24		NASA-CASE-LEW-11930-4				US-PATENT-CLASS-415-1
			US-PATENT-APPL-SN-860406	US-PATENT-CLASS-415-143			US-PATENT-CLASS-415-143
			US-PATENT-CLASS-252-12.2	US-PATENT-CLASS-60-645			US-PATENT-CLASS-60-649
			US-PATENT-CLASS-308-DIG.8	US-PATENT-CLASS-60-649			US-PATENT-4,141,219
			US-PATENT-CLASS-308-DIG.9	N79-20336*	c 34		NASA-CASE-LEW-11981-2
			US-PATENT-CLASS-308-168				US-PATENT-APPL-SN-829315
			US-PATENT-CLASS-308-171	US-PATENT-CLASS-250-352			US-PATENT-CLASS-313-22
			US-PATENT-CLASS-308-78	US-PATENT-CLASS-313-35			US-PATENT-CLASS-313-35
			US-PATENT-CLASS-308-87R	US-PATENT-CLASS-62-268			US-PATENT-CLASS-62-268
			US-PATENT-CLASS-427-292	US-PATENT-CLASS-62-376			US-PATENT-CLASS-62-514R
			US-PATENT-CLASS-427-327	US-PATENT-CLASS-62-514R			US-PATENT-4,141,224
			US-PATENT-CLASS-427-328	US-PATENT-CLASS-62-514R			US-PATENT-4,141,224
			US-PATENT-CLASS-427-34	N79-20377*	c 37		NASA-CASE-MS-19514-1
			US-PATENT-CLASS-427-355				US-PATENT-APPL-SN-772168
			US-PATENT-CLASS-427-376B	US-PATENT-CLASS-74-674			US-PATENT-CLASS-74-705
			US-PATENT-CLASS-427-376C	US-PATENT-CLASS-74-764			US-PATENT-CLASS-74-764
			US-PATENT-4,136,211	US-PATENT-4,141,259	N79-20751*	c 60	NASA-CASE-NPO-13676-1
N79-18052*	c 27		NASA-CASE-ARC-10915-2	N79-20827*	c 71		NASA-CASE-NPO-14005-1
			US-PATENT-APPL-SN-634304				US-PATENT-APPL-SN-812447
			US-PATENT-APPL-SN-779883	US-PATENT-CLASS-310-20			US-PATENT-CLASS-310-20
			US-PATENT-CLASS-427-40	US-PATENT-CLASS-310-322			US-PATENT-CLASS-310-322
			US-PATENT-CLASS-427-41	US-PATENT-CLASS-310-334			US-PATENT-CLASS-310-334
			US-PATENT-CLASS-428-412	US-PATENT-CLASS-318-116			US-PATENT-CLASS-318-116
			US-PATENT-CLASS-428-447	US-PATENT-CLASS-60-721			US-PATENT-CLASS-60-721
			US-PATENT-CLASS-428-451	US-PATENT-CLASS-73-505			US-PATENT-CLASS-73-505
			US-PATENT-4,137,365	US-PATENT-4,139,806	N79-20856*	c 74	NASA-CASE-NPO-14174-1
N79-18193*	c 33		NASA-CASE-KSC-10899-1				US-PATENT-APPL-SN-876441
			US-PATENT-APPL-SN-814004				US-PATENT-CLASS-250-237G
			US-PATENT-CLASS-324-127				US-PATENT-CLASS-354-77
			US-PATENT-CLASS-324-133				US-PATENT-CLASS-356-129
			US-PATENT-CLASS-324-52				US-PATENT-4,139,291
			US-PATENT-CLASS-340-650				
			US-PATENT-CLASS-340-664				
			US-PATENT-4,110,683				
N79-18296*	c 35		NASA-CASE-LAR-12275-1				
			US-PATENT-APPL-SN-885065				
			US-PATENT-CLASS-356-28				
			US-PATENT-CLASS-358-107				
			US-PATENT-4,135,817				
N79-18307*	c 36		NASA-CASE-LAR-12183-1				
			US-PATENT-CLASS-331-94.5G				
			US-PATENT-CLASS-331-94.5P				
			US-PATENT-CLASS-788-704				
			US-PATENT-4,110,703				
N79-18318*	c 37		NASA-CASE-LEW-12131-1				
			US-PATENT-APPL-SN-801290				
			US-PATENT-CLASS-415-174				
			US-PATENT-CLASS-415-200				
			US-PATENT-4,135,851				
N79-18443*	c 44		NASA-CASE-NPO-14058-1				

N79-22474*	c 37	NASA-CASE-MFS-23646-1 US-PATENT-APPL-SN-891372 US-PATENT-CLASS-138-96R US-PATENT-CLASS-220-266 US-PATENT-CLASS-239-265.15 US-PATENT-CLASS-239-288 US-PATENT-CLASS-277-192 US-PATENT-4,146,180	N79-24285*	c 34	NASA-CASE-MSC-16841-1 US-PATENT-APPL-SN-893382 US-PATENT-CLASS-210-108 US-PATENT-CLASS-210-142 US-PATENT-CLASS-73-714 US-PATENT-4,151,086	N79-25482*	c 44	NASA-CASE-NPO-14199-1 NASA-CASE-NPO-14200-1 US-PATENT-APPL-SN-891243 US-PATENT-CLASS-136-89CA US-PATENT-CLASS-136-89CC US-PATENT-CLASS-136-89PC US-PATENT-CLASS-136-89SJ US-PATENT-4,153,476
N79-22475*	c 37	NASA-CASE-LEW-11873-1 US-PATENT-APPL-SN-814006 US-PATENT-CLASS-277-62 US-PATENT-CLASS-277-96.1 US-PATENT-4,145,058	N79-24431*	c 44	NASA-CASE-NPO-13652-2 US-PATENT-APPL-SN-848794 US-PATENT-CLASS-228-5.1 US-PATENT-CLASS-228-6 US-PATENT-CLASS-29-57-4 US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-739 US-PATENT-CLASS-29-809 US-PATENT-4,149,665	N79-26075*	c 12	NASA-CASE-MFS-23460-1 US-PATENT-APPL-SN-746578 US-PATENT-CLASS-13-20 US-PATENT-CLASS-13-22 US-PATENT-CLASS-13-24 US-PATENT-CLASS-219-410 US-PATENT-4,158,742
N79-22537*	c 39	NASA-CASE-LAR-12027-1 US-PATENT-APPL-SN-889670 US-PATENT-CLASS-73-770 US-PATENT-CLASS-73-810 US-PATENT-4,145,933	N79-24432*	c 44	NASA-CASE-NPO-13579-3 US-PATENT-APPL-SN-762363 US-PATENT-CLASS-126-270 US-PATENT-CLASS-264-1 US-PATENT-CLASS-264-33 US-PATENT-CLASS-264-34 US-PATENT-CLASS-264-35 US-PATENT-CLASS-264-510 US-PATENT-CLASS-264-516 US-PATENT-CLASS-264-70 US-PATENT-CLASS-264-71 US-PATENT-CLASS-350-292 US-PATENT-CLASS-350-294 US-PATENT-CLASS-350-296 US-PATENT-CLASS-405-229 US-PATENT-CLASS-405-263 US-PATENT-4,149,817	N79-26100*	c 15	NASA-CASE-ARC-11104-1 US-PATENT-APPL-SN-854920 US-PATENT-CLASS-244-121 US-PATENT-CLASS-260-37EP US-PATENT-CLASS-260-830S US-PATENT-CLASS-264-102 US-PATENT-CLASS-264-145 US-PATENT-CLASS-264-151 US-PATENT-CLASS-264-175 US-PATENT-CLASS-264-236 US-PATENT-CLASS-428-220 US-PATENT-CLASS-428-413 US-PATENT-CLASS-428-414 US-PATENT-CLASS-428-418 US-PATENT-CLASS-428-421 US-PATENT-CLASS-428-920 US-PATENT-4,156,752
N79-22679*	c 46	NASA-CASE-NPO-14112-1 US-PATENT-APPL-SN-826326 US-PATENT-CLASS-102-21.6 US-PATENT-CLASS-166-63 US-PATENT-CLASS-175-1 US-PATENT-CLASS-181-106 US-PATENT-CLASS-181-117 US-PATENT-4,148,375	N79-24433*	c 44	NASA-CASE-NPO-13579-2 US-PATENT-APPL-SN-762362 US-PATENT-CLASS-126-271 US-PATENT-CLASS-126-400 US-PATENT-CLASS-237-1A US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-299 US-PATENT-4,149,521	N79-26372*	c 35	NASA-CASE-LAR-11889-1 US-PATENT-APPL-SN-662182 US-PATENT-CLASS-308-10 US-PATENT-CLASS-73-178R US-PATENT-4,156,548
N79-23097*	c 08	NASA-CASE-LAR-12215-1 US-PATENT-APPL-SN-858762 US-PATENT-CLASS-244-17.13 US-PATENT-CLASS-244-195 US-PATENT-CLASS-244-83G US-PATENT-CLASS-318-585 US-PATENT-CLASS-318-616 US-PATENT-CLASS-364-434 US-PATENT-4,148,452	N79-24651*	c 54	NASA-CASE-ARC-11058-2 US-PATENT-APPL-SN-753965 US-PATENT-APPL-SN-883094 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-235 US-PATENT-4,091,464 US-PATENT-4,151,612	N79-26439*	c 43	NASA-CASE-MFS-23726-1 US-PATENT-APPL-SN-848418 US-PATENT-CLASS-105-161 US-PATENT-CLASS-299-1 US-PATENT-CLASS-33-1N US-PATENT-CLASS-33-1Q US-PATENT-CLASS-33-174L US-PATENT-CLASS-364-560 US-PATENT-4,156,971
N79-23310*	c 32	NASA-CASE-KSC-11023-1 US-PATENT-APPL-SN-918533 US-PATENT-CLASS-179-1MN US-PATENT-CLASS-179-27CA US-PATENT-CLASS-179-84VF US-PATENT-4,153,818	N79-24652*	c 54	NASA-CASE-NPO-13906-1 US-PATENT-APPL-SN-837259 US-PATENT-CLASS-3-1.1 US-PATENT-CLASS-3-12.5 US-PATENT-CLASS-414-6 US-PATENT-4,149,278	N79-26474*	c 44	NASA-CASE-LEW-13150-1 US-PATENT-APPL-SN-914260 US-PATENT-CLASS-429-101 US-PATENT-CLASS-429-15 US-PATENT-4,159,366
N79-23345*	c 33	NASA-CASE-FRC-10116-1 US-PATENT-APPL-SN-885049 US-PATENT-CLASS-323-22T US-PATENT-4,151,456	N79-24976*	c 05	NASA-CASE-LEW-11890-1 US-PATENT-APPL-SN-891244 US-PATENT-CLASS-137-15.1 US-PATENT-CLASS-244-53B US-PATENT-4,154,256	N79-26475*	c 44	NASA-CASE-MFS-23540-1 US-PATENT-APPL-SN-863773 US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-577 US-PATENT-CLASS-29-578 US-PATENT-CLASS-29-580 US-PATENT-CLASS-357-45 US-PATENT-4,156,309
N79-23481*	c 44	NASA-CASE-MFS-23349-1 US-PATENT-APPL-SN-823061 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-4,148,295	N79-25142*	c 24	NASA-CASE-MSC-12737-1 US-PATENT-APPL-SN-788045 US-PATENT-CLASS-102-105 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-163 US-PATENT-CLASS-427-350 US-PATENT-CLASS-427-372A US-PATENT-CLASS-428-137 US-PATENT-CLASS-428-282 US-PATENT-CLASS-428-290 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-920 US-PATENT-4,151,800	N79-26771*	c 52	NASA-CASE-ARC-10994-2 US-PATENT-APPL-SN-759965 US-PATENT-CLASS-128-660 US-PATENT-CLASS-73-626 US-PATENT-4,154,230
N79-23555*	c 46	NASA-CASE-NPO-14255-1 US-PATENT-APPL-SN-830458 US-PATENT-CLASS-181-115 US-PATENT-CLASS-181-120 US-PATENT-CLASS-340-12R US-PATENT-4,153,134	N79-25143*	c 24	NASA-CASE-GSC-11577-3 US-PATENT-APPL-SN-322997 US-PATENT-APPL-SN-506803 US-PATENT-APPL-SN-645502 US-PATENT-CLASS-156-89 US-PATENT-CLASS-220-2.2 US-PATENT-CLASS-65-43 US-PATENT-3,859,714 US-PATENT-4,155,475	N79-26772*	c 52	NASA-CASE-KSC-11069-1 US-PATENT-APPL-SN-876438 US-PATENT-CLASS-3-1.9 US-PATENT-CLASS-3-12 US-PATENT-CLASS-3-2 US-PATENT-4,158,895
N79-23753*	c 71	NASA-CASE-NPO-14134-1 US-PATENT-APPL-SN-861392 US-PATENT-CLASS-179-1DM US-PATENT-CLASS-179-1MF US-PATENT-CLASS-181-148 US-PATENT-CLASS-340-8LF US-PATENT-4,149,034	N79-25443*	c 43	NASA-CASE-MFS-23720-3 US-PATENT-APPL-SN-848420 US-PATENT-CLASS-73-12 US-PATENT-CLASS-73-82 US-PATENT-4,154,084	N79-27836*	c 52	NASA-CASE-NPO-13910-1 US-PATENT-APPL-SN-712270 US-PATENT-CLASS-128-329R US-PATENT-CLASS-128-639 US-PATENT-4,154,228
N79-23798*	c 76	NASA-CASE-NPO-13969-1 US-PATENT-APPL-SN-820499 US-PATENT-CLASS-156-DIG-6.8 US-PATENT-CLASS-156-617SP US-PATENT-CLASS-423-345 US-PATENT-4,152,194	N79-25481*	c 44	NASA-CASE-LEW-12972-1 US-PATENT-APPL-SN-897829 US-PATENT-CLASS-429-253 US-PATENT-CLASS-526-7 US-PATENT-CLASS-526-9 US-PATENT-4,154,912	N79-28253*	c 25	NASA-CASE-NPO-13650-1 US-PATENT-APPL-SN-704468 US-PATENT-CLASS-118-49 US-PATENT-CLASS-23-252R US-PATENT-CLASS-248 US-PATENT-CLASS-253 US-PATENT-CLASS-337 US-PATENT-CLASS-349 US-PATENT-CLASS-423-33-5 US-PATENT-CLASS-427-95 US-PATENT-4,033,286
N79-24062*	c 24	NASA-CASE-ARC-11169-1 US-PATENT-APPL-SN-940688 US-PATENT-CLASS-428-366 US-PATENT-4,148,962				N79-28307*	c 27	NASA-CASE-LEW-12053-2 US-PATENT-APPL-SN-796263 US-PATENT-CLASS-260-37N US-PATENT-CLASS-260-42 US-PATENT-CLASS-260-53 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-127 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-221 US-PATENT-CLASS-528-223
N79-24073*	c 25	NASA-CASE-LAR-11922-1 US-PATENT-APPL-SN-856460 US-PATENT-CLASS-195-127 US-PATENT-CLASS-204-195B US-PATENT-4,149,938						
N79-24203*	c 32	NASA-CASE-LAR-12375-1 US-PATENT-APPL-SN-900842 US-PATENT-CLASS-73-647 US-PATENT-CLASS-73-724 US-PATENT-4,149,423						
N79-24210*	c 32	NASA-CASE-NPO-13641-1 US-PATENT-APPL-SN-777983 US-PATENT-CLASS-343-100TD US-PATENT-4,148,031						
N79-24254*	c 33	NASA-CASE-NPO-14000-1 US-PATENT-APPL-SN-876431 US-PATENT-CLASS-307-82 US-PATENT-CLASS-363-56 US-PATENT-CLASS-363-71 US-PATENT-CLASS-363-97 US-PATENT-4,150,425						
N79-24257*	c 33	NASA-CASE-NPO-14056-1 US-PATENT-APPL-SN-833637						

				US-PATENT-CLASS-528-225	N79-33316*	c 27	.....	NASA-CASE-LAR-12054-1	N80-10799*	c 54	.....	NASA-CASE-MSC-16182-1
				US-PATENT-CLASS-528-227				US-PATENT-APPL-SN-839963				US-PATENT-APPL-SN-780938
				US-PATENT-CLASS-528-229				US-PATENT-CLASS-264-137				US-PATENT-CLASS-128-142R
				US-PATENT-CLASS-528-331				US-PATENT-CLASS-428-474				US-PATENT-CLASS-128-191R
				US-PATENT-CLASS-528-336				US-PATENT-CLASS-528-229				US-PATENT-CLASS-128-212
				US-PATENT-CLASS-528-337				US-PATENT-4,166,170				US-PATENT-4,168,706
				US-PATENT-CLASS-528-338	N79-33392*	c 33	.....	NASA-CASE-XMF-04494-1	N80-14107*	c 05	.....	NASA-CASE-ARC-11106-1
				US-PATENT-CLASS-528-342				US-PATENT-APPL-SN-547643				US-PATENT-APPL-SN-831633
				US-PATENT-CLASS-544-193				US-PATENT-CLASS-200-83				US-PATENT-CLASS-415-199
				US-PATENT-4,159,262				US-PATENT-3,378,657				US-PATENT-CLASS-416-228
N79-28342*	c 28	.....		NASA-CASE-NPO-14260-1	N79-33393*	c 33	.....	NASA-CASE-XMS-01244-1				US-PATENT-CLASS-416-238
				US-PATENT-APPL-SN-861390				US-PATENT-APPL-SN-20370				US-PATENT-4,168,939
				US-PATENT-CLASS-149-19.4				US-PATENT-CLASS-200-114	N80-14183*	c 18	.....	NASA-CASE-GSC-12331-1
				US-PATENT-CLASS-149-19.9				US-PATENT-3,123,692				US-PATENT-APPL-SN-943088
				US-PATENT-CLASS-149-20	N79-33449*	c 35	.....	NASA-CASE-XGS-01245-1				US-PATENT-CLASS-343-880
				US-PATENT-4,158,583				US-PATENT-APPL-SN-134619				US-PATENT-CLASS-343-883
N79-28370*	c 31	.....		NASA-CASE-MFS-23721-1				US-PATENT-CLASS-338-18				US-PATENT-4,176,360
				US-PATENT-APPL-SN-847277				US-PATENT-3,119,086	N80-14188*	c 20	.....	NASA-CASE-XLE-02062-1
				US-PATENT-CLASS-343-114	N79-33450*	c 35	.....	NASA-CASE-XGS-01293-1				US-PATENT-APPL-SN-545793
				US-PATENT-CLASS-343-5NA				US-PATENT-APPL-SN-150690				US-PATENT-CLASS-60-203
				US-PATENT-4,161,731				US-PATENT-CLASS-73-400				US-PATENT-CLASS-60-259
N79-28415*	c 33	.....		NASA-CASE-MSC-16697-1				US-PATENT-3,190,124	N80-14229*	c 26	.....	NASA-CASE-NPO-14474-1
				US-PATENT-APPL-SN-885067	N79-33467*	c 37	.....	NASA-CASE-XMS-01077-1				US-PATENT-APPL-SN-918537
				US-PATENT-CLASS-307-119				US-PATENT-APPL-SN-208049				US-PATENT-CLASS-423-149
				US-PATENT-CLASS-307-98				US-PATENT-CLASS-312-319				US-PATENT-CLASS-423-293
				US-PATENT-CLASS-361-170				US-PATENT-3,123,418				US-PATENT-CLASS-423-348
				US-PATENT-4,161,661	N79-33468*	c 37	.....	NASA-CASE-HQN-00573-1				US-PATENT-CLASS-423-417
N79-28416*	c 33	.....		NASA-CASE-GSC-12171-1				US-PATENT-APPL-SN-129379				US-PATENT-CLASS-423-625
				US-PATENT-APPL-SN-878542				US-PATENT-CLASS-137-14				US-PATENT-4,172,883
				US-PATENT-CLASS-343-909				US-PATENT-3,134,389	N80-14281*	c 32	.....	NASA-CASE-NPO-13830-1
				US-PATENT-4,160,254	N79-33469*	c 37	.....	NASA-CASE-XGS-01286-1				US-PATENT-APPL-SN-703905
N79-28527*	c 35	.....		NASA-CASE-NPO-13953-1				US-PATENT-APPL-SN-142583				US-PATENT-APPL-SN-834257
				US-PATENT-APPL-SN-880727				US-PATENT-CLASS-251-172				US-PATENT-CLASS-333-81R
				US-PATENT-CLASS-356-237				US-PATENT-3,233,862				US-PATENT-CLASS-343-18A
				US-PATENT-CLASS-356-404	N79-34011*	c 74	.....	NASA-CASE-NPO-14066-1				US-PATENT-CLASS-343-909
				US-PATENT-4,160,601				US-PATENT-CLASS-250-216				US-PATENT-4,164,718
N79-28549*	c 37	.....		NASA-CASE-GSC-12297-1				US-PATENT-CLASS-250-551	N80-14330*	c 33	.....	NASA-CASE-NPO-10857-1
				US-PATENT-APPL-SN-880838				US-PATENT-4,166,959				US-PATENT-APPL-SN-888362
				US-PATENT-CLASS-165-105	N80-10278*	c 20	.....	NASA-CASE-MFS-23642-1				US-PATENT-CLASS-315-145
				US-PATENT-CLASS-357-74				US-PATENT-APPL-SN-923758				US-PATENT-CLASS-315-260
				US-PATENT-CLASS-357-79				US-PATENT-CLASS-137-177				US-PATENT-CLASS-315-334
				US-PATENT-CLASS-357-81				US-PATENT-CLASS-137-209				US-PATENT-3,635,537
				US-PATENT-CLASS-357-82				US-PATENT-CLASS-137-574	N80-14332*	c 33	.....	NASA-CASE-NPO-14350-1
				US-PATENT-CLASS-357-83				US-PATENT-CLASS-137-576				US-PATENT-APPL-SN-921627
				US-PATENT-4,161,747				US-PATENT-CLASS-137-590				US-PATENT-CLASS-250-310
N79-28550*	c 37	.....		NASA-CASE-GSC-12274-1				US-PATENT-CLASS-137-590				US-PATENT-CLASS-250-492A
				US-PATENT-APPL-SN-909100				US-PATENT-CLASS-244-135R				US-PATENT-CLASS-324-158T
				US-PATENT-CLASS-251-7				US-PATENT-4,168,718				US-PATENT-4,172,228
				US-PATENT-CLASS-72-436	N80-10358*	c 27	.....	NASA-CASE-MSC-14903-2	N80-14371*	c 35	.....	NASA-CASE-LAR-11690-1
				US-PATENT-CLASS-72-451				US-PATENT-APPL-SN-706424				US-PATENT-APPL-SN-928129
				US-PATENT-CLASS-72-470				US-PATENT-APPL-SN-907435				US-PATENT-CLASS-73-655
				US-PATENT-4,159,634				US-PATENT-CLASS-260-926				US-PATENT-CLASS-73-661
N79-28551*	c 37	.....		NASA-CASE-ARC-11052-1				US-PATENT-4,092,466				US-PATENT-4,171,645
				US-PATENT-APPL-SN-826202				US-PATENT-4,168,287	N80-14384*	c 36	.....	NASA-CASE-GSC-12237-1
				US-PATENT-CLASS-414-4				US-PATENT-4,138,491				US-PATENT-APPL-SN-837795
				US-PATENT-4,160,508	N80-10374*	c 28	.....	NASA-CASE-NPO-13907-1				US-PATENT-APPL-SN-331-94.5C
				US-PATENT-4,160,508				US-PATENT-APPL-SN-668783				US-PATENT-CLASS-331-94.5P
N79-31228*	c 09	.....		NASA-CASE-LAR-12149-2				US-PATENT-CLASS-123-DIG.12				US-PATENT-4,173,001
				US-PATENT-APPL-SN-829314				US-PATENT-CLASS-123-179R				US-PATENT-4,173,001
				US-PATENT-APPL-SN-928131				US-PATENT-CLASS-123-3	N80-14395*	c 37	.....	NASA-CASE-XNP-08835-1
				US-PATENT-CLASS-35-12E				US-PATENT-CLASS-23-288R				US-PATENT-APPL-SN-534931
				US-PATENT-CLASS-35-12H				US-PATENT-CLASS-423-650				US-PATENT-CLASS-204-224
				US-PATENT-4,164,079				US-PATENT-CLASS-48-DIG.8				US-PATENT-3,352,774
N79-31347*	c 24	.....		NASA-CASE-GSC-12303-1				US-PATENT-CLASS-48-10.3	N80-14397*	c 37	.....	NASA-CASE-MFS-23284-1
				US-PATENT-APPL-SN-862880				US-PATENT-CLASS-48-102A				US-PATENT-APPL-SN-753103
				US-PATENT-CLASS-106-74				US-PATENT-CLASS-48-107				US-PATENT-CLASS-204-180G
				US-PATENT-CLASS-106-84				US-PATENT-CLASS-48-117				US-PATENT-CLASS-204-299R
				US-PATENT-4,162,169				US-PATENT-CLASS-48-61				US-PATENT-4,040,940
N79-31523*	c 34	.....		NASA-CASE-GSC-12253-1				US-PATENT-CLASS-60-300	N80-14398*	c 37	.....	NASA-CASE-GSC-12322-1
				US-PATENT-APPL-SN-853677				US-PATENT-CLASS-60-606				US-PATENT-APPL-SN-907436
				US-PATENT-CLASS-165-105				US-PATENT-CLASS-60-606				US-PATENT-CLASS-244-161
				US-PATENT-CLASS-165-32				US-PATENT-4,033,133				US-PATENT-CLASS-269-156
				US-PATENT-CLASS-244-1R	N80-10494*	c 37	.....	NASA-CASE-NPO-14384-1				US-PATENT-CLASS-294-113
				US-PATENT-CLASS-244-163				US-PATENT-APPL-SN-880728				US-PATENT-CLASS-294-86R
				US-PATENT-4,162,701				US-PATENT-CLASS-210-186				US-PATENT-CLASS-414-1
N79-31706*	c 43	.....		NASA-CASE-MFS-23725-1				US-PATENT-CLASS-210-340				US-PATENT-4,173,324
				US-PATENT-APPL-SN-848793				US-PATENT-CLASS-239-102	N80-14423*	c 43	.....	NASA-CASE-MFS-23720-2
				US-PATENT-CLASS-250-253				US-PATENT-CLASS-239-302				US-PATENT-APPL-SN-848421
				US-PATENT-CLASS-250-272				US-PATENT-CLASS-422-187				US-PATENT-CLASS-73-12
				US-PATENT-4,165,460				US-PATENT-CLASS-422-199				US-PATENT-CLASS-73-82
N79-31752*	c 44	.....		NASA-CASE-NPO-14205-1				US-PATENT-CLASS-422-208				US-PATENT-4,157,655
				US-PATENT-APPL-SN-920879				US-PATENT-CLASS-422-235	N80-14472*	c 44	.....	NASA-CASE-LEW-12586-1
				US-PATENT-CLASS-106-1				US-PATENT-CLASS-422-242				US-PATENT-APPL-SN-916655
				US-PATENT-CLASS-106-1.2				US-PATENT-CLASS-423-350				US-PATENT-CLASS-307-63
				US-PATENT-CLASS-136-89CC				US-PATENT-4,169,129				US-PATENT-CLASS-307-66
				US-PATENT-CLASS-252-514	N80-10507*	c 39	.....	NASA-CASE-NPO-14192-1				US-PATENT-CLASS-323-15
				US-PATENT-CLASS-29-572				US-PATENT-APPL-SN-830562				US-PATENT-CLASS-323-19
				US-PATENT-CLASS-29-589				US-PATENT-CLASS-181-102				US-PATENT-4,175,249
				US-PATENT-CLASS-357-30				US-PATENT-CLASS-181-105	N80-14473*	c 44	.....	NASA-CASE-MFS-23727-1
				US-PATENT-CLASS-357-65				US-PATENT-CLASS-367-26				US-PATENT-APPL-SN-856465
				US-PATENT-CLASS-357-67				US-PATENT-CLASS-467-28				US-PATENT-CLASS-126-438
				US-PATENT-CLASS-427-68				US-PATENT-4,168,483				US-PATENT-CLASS-126-442
N79-31753*	c 44	.....		NASA-CASE-NPO-14467-1	N80-10709*	c 46	.....	NASA-CASE-NPO-14231-1				US-PATENT-CLASS-350-295
				US-PATENT-APPL-SN-946994				US-PATENT-APPL-SN-903019				US-PATENT-CLASS-350-296
				US-PATENT-CLASS-136-89PC				US-PATENT-CLASS-175-78				US-PATENT-4,173,397
				US-PATENT-4,162,928				US-PATENT-CLASS-73-155	N80-14474*	c 44	.....	NASA-CASE-NPO-13652-3
								US-PATENT-4,167,111				

				US-PATENT-APPL-SN-809890				US-PATENT-CLASS-73-188				US-PATENT-CLASS-156-278
				US-PATENT-APPL-SN-891358				US-PATENT-CLASS-73-189				US-PATENT-CLASS-156-285
				US-PATENT-CLASS-136-89P				US-PATENT-CLASS-73-212				US-PATENT-CLASS-156-303
				US-PATENT-CLASS-29-572				US-PATENT-4,184,149				US-PATENT-CLASS-156-312
				US-PATENT-CLASS-29-588	N80-18039*	c 07	.....	NASA-CASE-LEW-12971-1				US-PATENT-4,184,903
				US-PATENT-CLASS-29-627				US-PATENT-APPL-SN-858936	N80-18551*	c 44	.....	NASA-CASE-NPO-14096-1
				US-PATENT-4,133,697				US-PATENT-CLASS-60-240				US-PATENT-APPL-SN-928128
				US-PATENT-4,173,820				US-PATENT-CLASS-60-39.03				US-PATENT-CLASS-324-158D
N80-14579*	c 45	.....		NASA-CASE-NPO-14340-1				US-PATENT-CLASS-60-39.27				US-PATENT-CLASS-324-404
				US-PATENT-APPL-SN-946992				US-PATENT-4,184,327				US-PATENT-4,184,111
				US-PATENT-CLASS-210-57	N80-18097*	c 20	.....	NASA-CASE-MSC-18179-1	N80-18552*	c 44	.....	NASA-CASE-LAR-11999-1
				US-PATENT-CLASS-210-63Z				US-PATENT-APPL-SN-931218				US-PATENT-APPL-SN-876299
				US-PATENT-CLASS-422-9				US-PATENT-CLASS-60-63Z				US-PATENT-CLASS-250-211K
				US-PATENT-4,172,786				US-PATENT-4,183,217				US-PATENT-CLASS-250-231SE
N80-14603*	c 46	.....		NASA-CASE-NPO-14124-1	N80-18231*	c 31	.....	NASA-CASE-NPO-14382-1				US-PATENT-4,184,072
				US-PATENT-APPL-SN-863024				US-PATENT-APPL-SN-891373	N80-18667*	c 48	.....	NASA-CASE-MFS-23862-1
				US-PATENT-CLASS-343-100ME				US-PATENT-CLASS-261-118				US-PATENT-APPL-SN-951423
				US-PATENT-CLASS-343-112D				US-PATENT-CLASS-422-224				US-PATENT-CLASS-73-170A
				US-PATENT-4,170,776				US-PATENT-CLASS-423-350				US-PATENT-4,184,368
N80-14684*	c 52	.....		NASA-CASE-LEW-12955-1	N80-18252*	c 32	.....	US-PATENT-4,188,368	N80-18690*	c 52	.....	NASA-CASE-LEW-12723-1
				US-PATENT-APPL-SN-829318				NASA-CASE-NPO-14152-1				US-PATENT-APPL-SN-829317
				US-PATENT-CLASS-128-276				US-PATENT-APPL-SN-89828				US-PATENT-CLASS-128-276
				US-PATENT-4,157,718				US-PATENT-CLASS-178-58R				US-PATENT-CLASS-128-760
N80-14687*	c 52	.....		NASA-CASE-NPO-14101-1				US-PATENT-CLASS-179-15BA				US-PATENT-4,184,491
				US-PATENT-APPL-SN-772434				US-PATENT-4,187,394	N80-18691*	c 52	.....	NASA-CASE-ARC-11120-1
				US-PATENT-CLASS-210-22	N80-18253*	c 32	.....	NASA-CASE-NPO-14328-1				US-PATENT-APPL-SN-796256
				US-PATENT-CLASS-210-321B				NASA-CASE-NPO-14579-1				US-PATENT-CLASS-128-748
				US-PATENT-4,094,775				NASA-CASE-NPO-14590-1				US-PATENT-CLASS-128-903
N80-14877*	c 72	.....		NASA-CASE-NPO-14078-1				US-PATENT-APPL-SN-956160				US-PATENT-CLASS-73-724
				US-PATENT-APPL-SN-856466				US-PATENT-CLASS-325-305				US-PATENT-4,186,749
				US-PATENT-CLASS-250-281				US-PATENT-CLASS-325-307	N80-18951*	c 76	.....	NASA-CASE-GSC-12291-1
				US-PATENT-CLASS-250-282				US-PATENT-CLASS-325-419				US-PATENT-APPL-SN-906298
				US-PATENT-CLASS-250-423P				US-PATENT-4,186,347				US-PATENT-CLASS-125-23R
				US-PATENT-4,158,775	N80-18285*	c 33	.....	NASA-CASE-NPO-14229-1				US-PATENT-CLASS-269-21
N80-16116*	c 25	.....		NASA-CASE-ARC-11107-1				US-PATENT-APPL-SN-835419				US-PATENT-CLASS-51-235
				US-PATENT-APPL-SN-883961				US-PATENT-APPL-SN-949886				US-PATENT-CLASS-83-152
				US-PATENT-CLASS-521-124				US-PATENT-CLASS-200-153S				US-PATENT-CLASS-83-870
				US-PATENT-CLASS-521-125				US-PATENT-CLASS-200-304				US-PATENT-4,184,472
				US-PATENT-CLASS-521-127				US-PATENT-CLASS-333-262	N80-20224*	c 02	.....	NASA-CASE-LAR-12261-1
				US-PATENT-CLASS-521-157				US-PATENT-4,187,416				US-PATENT-APPL-SN-964009
				US-PATENT-CLASS-528-73	N80-18286*	c 33	.....	NASA-CASE-GSC-12347-1				US-PATENT-CLASS-73-147
				US-PATENT-4,177,333				US-PATENT-APPL-SN-868249				US-PATENT-CLASS-73-205L
N80-16158*	c 27	.....		NASA-CASE-LAR-12099-1				US-PATENT-CLASS-174-142				US-PATENT-4,188,823
				US-PATENT-APPL-SN-906299				US-PATENT-CLASS-174-73R	N80-20334*	c 25	.....	NASA-CASE-NPO-14079-1
				US-PATENT-CLASS-528-207				US-PATENT-4,185,164				US-PATENT-APPL-SN-958573
				US-PATENT-CLASS-528-208	N80-18287*	c 33	.....	NASA-CASE-NPO-14224-1				US-PATENT-CLASS-250-307
				US-PATENT-4,180,648				US-PATENT-APPL-SN-951829				US-PATENT-CLASS-250-308
N80-16163* #	c 27	.....		NASA-CASE-NPO-14021-2				US-PATENT-CLASS-310-306				US-PATENT-4,194,115
				US-PATENT-APPL-SN-106188				US-PATENT-CLASS-343-100R	N80-20402*	c 28	.....	NASA-CASE-LEW-12081-2
N80-16261* #	c 32	.....		NASA-CASE-NPO-14362-1				US-PATENT-CLASS-343-100ST				US-PATENT-APPL-SN-676432
				US-PATENT-APPL-SN-106118				US-PATENT-4,187,506				US-PATENT-APPL-SN-837794
N80-16321*	c 36	.....		NASA-CASE-LAR-12176-1	N80-18357*	c 35	.....	NASA-CASE-NPO-14501-1				US-PATENT-CLASS-149-1
				US-PATENT-APPL-SN-929083				US-PATENT-APPL-SN-915535				US-PATENT-CLASS-423-648R
				US-PATENT-CLASS-332-751				US-PATENT-CLASS-264-40.4				US-PATENT-4,193,827
				US-PATENT-CLASS-350-359				US-PATENT-CLASS-73-343R	N80-20448*	c 32	.....	NASA-CASE-NPO-14480-1
				US-PATENT-CLASS-356-243				US-PATENT-CLASS-73-56				US-PATENT-APPL-SN-910707
				US-PATENT-CLASS-356-28				US-PATENT-4,185,493				US-PATENT-CLASS-325-14
				US-PATENT-4,176,950	N80-18358*	c 35	.....	NASA-CASE-LAR-12269-1				US-PATENT-CLASS-325-4
N80-16452*	c 44	.....		NASA-CASE-MFS-23518-3				US-PATENT-APPL-SN-934576				US-PATENT-CLASS-325-8
				US-PATENT-APPL-SN-829390				US-PATENT-CLASS-73-4R				US-PATENT-CLASS-325-9
				US-PATENT-APPL-SN-910793				US-PATENT-CLASS-73-40				US-PATENT-4,189,675
				US-PATENT-CLASS-126-417				US-PATENT-4,182,158	N80-20487*	c 33	.....	NASA-CASE-LEW-13148-1
				US-PATENT-CLASS-126-901				NASA-CASE-GSC-12219-1				US-PATENT-APPL-SN-964754
				US-PATENT-CLASS-428-629	N80-18359*	c 35	.....	US-PATENT-APPL-SN-891356				US-PATENT-CLASS-429-101
				US-PATENT-CLASS-428-650				US-PATENT-CLASS-325-363				US-PATENT-CLASS-429-105
				US-PATENT-CLASS-428-658				US-PATENT-CLASS-343-100ME				US-PATENT-CLASS-429-107
				US-PATENT-CLASS-428-675				US-PATENT-CLASS-356-216				US-PATENT-CLASS-429-109
				US-PATENT-CLASS-428-680				US-PATENT-CLASS-73-355R				US-PATENT-4,192,910
				US-PATENT-4,104,134				US-PATENT-4,178,100	N80-20559*	c 35	.....	NASA-CASE-LAR-12304-1
				US-PATENT-4,177,325	N80-18364* #	c 35	.....	NASA-CASE-NPO-13606-2				US-PATENT-APPL-SN-928130
N80-16714*	c 51	.....		NASA-CASE-MSC-16260-1				US-PATENT-APPL-SN-065676				US-PATENT-CLASS-29-25.35
				US-PATENT-APPL-SN-876440	N80-18372*	c 36	.....	NASA-CASE-NPO-14254-1				US-PATENT-CLASS-310-311
				US-PATENT-CLASS-23-927				US-PATENT-APPL-SN-876432				US-PATENT-CLASS-310-327
				US-PATENT-CLASS-422-52				US-PATENT-CLASS-330-4				US-PATENT-CLASS-310-334
				US-PATENT-CLASS-435-34				US-PATENT-CLASS-331-94				US-PATENT-CLASS-310-360
				US-PATENT-4,176,007				US-PATENT-CLASS-333-24R				US-PATENT-4,195,244
N80-16715*	c 51	.....		NASA-CASE-MFS-23883-1				US-PATENT-4,187,470	N80-20560*	c 35	.....	NASA-CASE-FRC-10093-1
				US-PATENT-APPL-SN-017888				NASA-CASE-ARC-11157-1				US-PATENT-APPL-SN-878539
				US-PATENT-CLASS-204-180R				US-PATENT-APPL-SN-935827				US-PATENT-CLASS-219-85CA
				US-PATENT-CLASS-204-299R				US-PATENT-CLASS-220-423				US-PATENT-CLASS-219-85CM
				US-PATENT-CLASS-424-12				US-PATENT-CLASS-220-445				US-PATENT-CLASS-219-85R
				US-PATENT-4,181,589				US-PATENT-CLASS-220-901				US-PATENT-CLASS-338-2
N80-16725*	c 52	.....		NASA-CASE-NPO-14092-1				US-PATENT-4,184,609	N80-20563*	c 35	.....	NASA-CASE-NPO-14093-1
				US-PATENT-APPL-SN-807597	N80-18400* #	c 37	.....	NASA-CASE-NPO-12131-3				US-PATENT-APPL-SN-880729
				US-PATENT-CLASS-128-DIG.9				US-PATENT-APPL-SN-096255				US-PATENT-CLASS-356-346
				US-PATENT-CLASS-128-348	N80-18498*	c 43	.....	NASA-CASE-LAR-12344-1				US-PATENT-4,193,693
				US-PATENT-CLASS-128-6				US-PATENT-APPL-SN-945041				US-PATENT-4,193,693
				US-PATENT-CLASS-138-103				US-PATENT-CLASS-343-18B	N80-20808*	c 44	.....	NASA-CASE-NPO-14237-1
				US-PATENT-CLASS-138-133				US-PATENT-CLASS-343-18D				US-PATENT-APPL-SN-897831
				US-PATENT-CLASS-138-33				US-PATENT-CLASS-343-5CM				US-PATENT-CLASS-126-263
				US-PATENT-CLASS-219-201				US-PATENT-CLASS-343-5W				US-PATENT-CLASS-149-15
				US-PATENT-CLASS-219-522				US-PATENT-4,184,155				US-PATENT-CLASS-149-37
				US-PATENT-4,176,662	N80-18550*	c 44	.....	NASA-CASE-NPO-14303-1				US-PATENT-CLASS-220-429
N80-18036*	c 06	.....		NASA-CASE-FRC-11009-1				NASA-CASE-NPO-14305-1				US-PATENT-4,193,388
				US-PATENT-APPL-SN-910708				US-PATENT-APPL-SN-928133	N80-20810*	c 44	.....	NASA-CASE-LAR-12205-1
				US-PATENT-CLASS-340-177VA				US-PATENT-CLASS-156-104				US-PATENT-APPL-SN-900843

		US-PATENT-CLASS-126-419			US-PATENT-APPL-SN-848419			US-PATENT-APPL-SN-956529
		US-PATENT-CLASS-126-434			US-PATENT-CLASS-73-12			US-PATENT-CLASS-250-338
		US-PATENT-CLASS-126-437			US-PATENT-CLASS-73-82			US-PATENT-CLASS-250-352
		US-PATENT-CLASS-165-32			US-PATENT-4,195,512			US-PATENT-CLASS-250-353
		US-PATENT-4,192,290			NASA-CASE-FRC-11012-1			US-PATENT-CLASS-356-328
N80-21138*	c 74	NASA-CASE-LAR-12178-1	N80-23969*	c 52	US-PATENT-APPL-SN-928137	N80-26658*	c 37	US-PATENT-4,205,229
		US-PATENT-APPL-SN-953390			US-PATENT-CLASS-128-666			NASA-CASE-LEW-12131-2
		US-PATENT-CLASS-350-25			US-PATENT-CLASS-128-690			US-PATENT-APPL-SN-801290
		US-PATENT-CLASS-350-285			US-PATENT-4,198,988			US-PATENT-APPL-SN-931090
		US-PATENT-CLASS-356-150	N80-24149*	c 74	NASA-CASE-GSC-12348-1			US-PATENT-CLASS-415-174
		US-PATENT-CLASS-356-152			US-PATENT-APPL-SN-929088			US-PATENT-CLASS-415-196
N80-21140*	c 74	US-PATENT-4,189,234			US-PATENT-CLASS-51-277			US-PATENT-4,135,851
		NASA-CASE-GSC-12357-1			US-PATENT-CLASS-51-283R	N80-27067*	c 51	US-PATENT-4,207,024
		US-PATENT-APPL-SN-943089			US-PATENT-CLASS-65-61			NASA-CASE-MSC-16777-1
		US-PATENT-CLASS-250-277CH			US-PATENT-4,198,788			US-PATENT-APPL-SN-893657
		US-PATENT-CLASS-250-280	N80-24437*	c 27	NASA-CASE-LEW-13027-1			US-PATENT-CLASS-204-195B
		US-PATENT-CLASS-350-162R			US-PATENT-APPL-SN-958575			US-PATENT-CLASS-23-220R
		US-PATENT-CLASS-356-334			US-PATENT-CLASS-427-164			US-PATENT-CLASS-422-68
N80-21719*	c 35	US-PATENT-4,192,994			US-PATENT-CLASS-427-38			US-PATENT-CLASS-435-289
		NASA-CASE-GSC-12273-1			US-PATENT-CLASS-427-40			US-PATENT-CLASS-435-290
		US-PATENT-APPL-SN-897830			US-PATENT-CLASS-428-421			US-PATENT-CLASS-435-291
		US-PATENT-CLASS-244-165			US-PATENT-CLASS-428-474			US-PATENT-CLASS-435-3
		US-PATENT-CLASS-244-170			US-PATENT-4,199,650			US-PATENT-CLASS-435-311
N80-21828*	c 44	US-PATENT-4,193,570	N80-24438*	c 27	NASA-CASE-MSC-14903-3			US-PATENT-CLASS-435-316
		NASA-CASE-MFS-23515-1			US-PATENT-APPL-SN-706424			US-PATENT-CLASS-435-32
		US-PATENT-APPL-SN-880726			US-PATENT-APPL-SN-907479			US-PATENT-CLASS-435-34
		US-PATENT-CLASS-415-101			US-PATENT-CLASS-260-DIG.29			US-PATENT-CLASS-435-38
		US-PATENT-CLASS-415-2			US-PATENT-CLASS-525-326			US-PATENT-CLASS-435-39
N80-23383*	c 25	US-PATENT-4,191,505			US-PATENT-CLASS-525-336	N80-27072*	c 52	US-PATENT-4,204,037
		NASA-CASE-ARC-11154-1			US-PATENT-CLASS-525-340			NASA-CASE-NPO-14212-1
		US-PATENT-APPL-SN-921626			US-PATENT-CLASS-525-374			US-PATENT-APPL-SN-838308
		US-PATENT-CLASS-521-146			US-PATENT-CLASS-525-375			US-PATENT-CLASS-128-642
		US-PATENT-CLASS-521-55			US-PATENT-CLASS-526-261			US-PATENT-CLASS-128-774
		US-PATENT-CLASS-521-918			US-PATENT-CLASS-526-275			US-PATENT-CLASS-128-782
		US-PATENT-CLASS-525-4			US-PATENT-CLASS-526-276			US-PATENT-CLASS-33-125R
		US-PATENT-CLASS-55-66			US-PATENT-CLASS-526-278			US-PATENT-CLASS-338-2
		US-PATENT-CLASS-55-67			US-PATENT-CLASS-528-481			US-PATENT-CLASS-73-781
		US-PATENT-CLASS-55-68			US-PATENT-4,200,721			US-PATENT-4,204,544
		US-PATENT-CLASS-55-72	N80-24510*	c 32	NASA-CASE-NPO-14524-1	N80-27163*	c 72	NASA-CASE-NPO-14324-1
		US-PATENT-4,198,792			NASA-CASE-NPO-14527-1			US-PATENT-APPL-SN-940970
N80-23419*	c 26	NASA-CASE-MFS-23816-1			US-PATENT-APPL-SN-957452			US-PATENT-CLASS-250-427
		US-PATENT-APPL-SN-974292			US-PATENT-CLASS-350-294			US-PATENT-CLASS-313-156
		US-PATENT-CLASS-148-32			US-PATENT-CLASS-350-6.5			US-PATENT-CLASS-313-362
		US-PATENT-CLASS-75-135			US-PATENT-CLASS-350-6.6			US-PATENT-CLASS-313-363
		US-PATENT-CLASS-75-138			US-PATENT-CLASS-356-28.5			US-PATENT-4,206,383
		US-PATENT-CLASS-75-178R			US-PATENT-4,201,468	N80-27185*	c 74	NASA-CASE-LAR-12251-1
		US-PATENT-4,198,232	N80-24573*	c 34	NASA-CASE-LEW-12441-2			US-PATENT-APPL-SN-953389
N80-23452*	c 27	NASA-CASE-ARC-10980-1			US-PATENT-APPL-SN-559846			US-PATENT-CLASS-350-175E
		US-PATENT-APPL-SN-694407			US-PATENT-APPL-SN-856462			US-PATENT-CLASS-350-226
		US-PATENT-CLASS-204-171			US-PATENT-CLASS-239-127.1			US-PATENT-4,206,970
		US-PATENT-CLASS-210-23H			US-PATENT-CLASS-60-267	N80-28300*	c 02	NASA-CASE-FRC-11024-1
		US-PATENT-CLASS-210-500M			US-PATENT-4,199,937			US-PATENT-APPL-SN-015983
		US-PATENT-CLASS-427-245			NASA-CASE-NPO-14635-1			US-PATENT-CLASS-73-180
		US-PATENT-CLASS-427-41	N80-24741*	c 44	US-PATENT-APPL-SN-008212			US-PATENT-CLASS-73-182
		US-PATENT-4,199,448			US-PATENT-CLASS-136-89SG			US-PATENT-CLASS-73-861.65
N80-23471*	c 28	NASA-CASE-NPO-14109-1			US-PATENT-CLASS-156-DIG.64			US-PATENT-CLASS-73-861.66
		US-PATENT-APPL-SN-946990			US-PATENT-CLASS-156-605			US-PATENT-4,212,199
		US-PATENT-CLASS-149-108.4			US-PATENT-CLASS-156-617SP	N80-28492*	c 26	NASA-CASE-LAR-11821-1
		US-PATENT-CLASS-23-300			US-PATENT-CLASS-252-62.3E			US-PATENT-APPL-SN-023501
		US-PATENT-CLASS-23-302A			US-PATENT-4,210,622			US-PATENT-CLASS-148-131
		US-PATENT-CLASS-23-302R	N80-24906*	c 46	NASA-CASE-NPO-14558-1			US-PATENT-CLASS-266-119
		US-PATENT-CLASS-23-302T			US-PATENT-APPL-SN-945436			US-PATENT-CLASS-266-249
		US-PATENT-4,198,209			US-PATENT-CLASS-73-155			US-PATENT-CLASS-266-274
N80-23524*	c 32	NASA-CASE-NPO-14519-1			US-PATENT-4,196,619	N80-28536*	c 28	NASA-CASE-NPO-14477-1
		US-PATENT-APPL-SN-008207	N80-26298*	c 07	NASA-CASE-ARC-10814-2			US-PATENT-APPL-SN-951830
		US-PATENT-CLASS-343-786			US-PATENT-APPL-SN-684045			US-PATENT-CLASS-149-19.2
		US-PATENT-CLASS-343-895			US-PATENT-APPL-SN-831632			US-PATENT-CLASS-149-19.9
		US-PATENT-4,199,764			US-PATENT-CLASS-60-39.06			US-PATENT-CLASS-149-20
N80-23559*	c 33	NASA-CASE-NPO-13804-1			US-PATENT-CLASS-60-733			US-PATENT-4,210,474
		US-PATENT-APPL-SN-766999			US-PATENT-CLASS-60-746	N80-28578*	c 32	NASA-CASE-GSC-12365-1
		US-PATENT-CLASS-310-319			US-PATENT-4,204,402			US-PATENT-APPL-SN-039031
		US-PATENT-CLASS-331-65	N80-26388*	c 24	NASA-CASE-MFS-23626-1			US-PATENT-CLASS-343-100SA
		US-PATENT-CLASS-340-602			US-PATENT-APPL-SN-941711			US-PATENT-CLASS-343-844
		US-PATENT-CLASS-340-604			US-PATENT-CLASS-156-212			US-PATENT-CLASS-343-854
		US-PATENT-4,197,530			US-PATENT-CLASS-156-213			US-PATENT-4,213,131
N80-23653*	c 37	NASA-CASE-MSC-16938-1			US-PATENT-CLASS-156-285	N80-28686*	c 35	NASA-CASE-LAR-11370-1
		US-PATENT-APPL-SN-938582			US-PATENT-CLASS-260-17.2			US-PATENT-APPL-SN-940689
		US-PATENT-CLASS-151-41.76			US-PATENT-CLASS-264-118			US-PATENT-CLASS-250-457
		US-PATENT-4,193,435			US-PATENT-CLASS-264-119			US-PATENT-CLASS-250-491
N80-23654*	c 37	NASA-CASE-NPO-14473-1			US-PATENT-CLASS-264-124			US-PATENT-CLASS-250-513
		US-PATENT-APPL-SN-938300			US-PATENT-4,204,899			US-PATENT-4,213,051
		US-PATENT-CLASS-137-375	N80-26446*	c 27	NASA-CASE-MSC-16074-1	N80-28687*	c 35	NASA-CASE-LAR-12285-1
		US-PATENT-CLASS-137-625.4			US-PATENT-APPL-SN-747674			US-PATENT-APPL-SN-929087
		US-PATENT-CLASS-251-138			US-PATENT-CLASS-204-159.15			US-PATENT-CLASS-356-244
		US-PATENT-CLASS-251-86			US-PATENT-CLASS-204-159.19			US-PATENT-CLASS-356-369
		US-PATENT-4,195,666			US-PATENT-CLASS-525-426			US-PATENT-4,210,401
N80-23655*	c 37	NASA-CASE-GSC-12318-1			US-PATENT-CLASS-8-DIG.12	N80-28711*	c 37	NASA-CASE-LEW-12119-1
		US-PATENT-APPL-SN-894213			US-PATENT-CLASS-8-DIG.18			US-PATENT-APPL-SN-672219
		US-PATENT-CLASS-219-160			US-PATENT-CLASS-8-115.5			US-PATENT-CLASS-277-153
		US-PATENT-CLASS-219-161			US-PATENT-4,203,723			US-PATENT-CLASS-277-193
		US-PATENT-CLASS-228-212	N80-26599*	c 33	NASA-CASE-FRC-10113-1			US-PATENT-CLASS-277-224
		US-PATENT-CLASS-228-222			US-PATENT-APPL-SN-885066			US-PATENT-4,212,477
		US-PATENT-CLASS-228-44.1R			US-PATENT-CLASS-324-51	N80-29539*	c 32	NASA-CASE-LAR-11745-1
		US-PATENT-CLASS-269-287			US-PATENT-4,204,154			US-PATENT-APPL-SN-799025
		US-PATENT-4,196,840	N80-26635*	c 35	NASA-CASE-NPO-14372-1			US-PATENT-CLASS-343-786
N80-23711*	c 43	NASA-CASE-MFS-23720-1			US-PATENT-APPL-SN-646333			

N80-29583* #	c 33	US-PATENT-4,089,004	US-PATENT-APPL-SN-938293	US-PATENT-CLASS-260-898
		NASA-CASE-FRC-11055-1	US-PATENT-CLASS-333-12	US-PATENT-CLASS-260-901
		US-PATENT-APPL-SN-172098	US-PATENT-CLASS-333-252	US-PATENT-CLASS-521-27
N80-29703*	c 37	NASA-CASE-NPO-14406-1	US-PATENT-CLASS-333-99S	US-PATENT-CLASS-521-32
		US-PATENT-APPL-SN-951828	US-PATENT-4,215,327	US-PATENT-CLASS-521-62
		US-PATENT-CLASS-125-21		US-PATENT-4,119,581
N80-29834*	c 44	US-PATENT-CLASS-83-820	N80-32650* c 33	NASA-CASE-MSC-12631-3
		US-PATENT-4,191,159	NASA-CASE-NPO-14424-1	US-PATENT-APPL-SN-006952
		NASA-CASE-LAR-11551-1	NASA-CASE-NPO-14430-1	US-PATENT-APPL-SN-568541
N80-29835*	c 44	US-PATENT-APPL-SN-883090	US-PATENT-APPL-SN-918534	US-PATENT-APPL-SN-785279
		US-PATENT-CLASS-290-53	US-PATENT-CLASS-324-62	US-PATENT-CLASS-156-154
		US-PATENT-CLASS-310-30	US-PATENT-CLASS-324-64	US-PATENT-CLASS-156-160
N80-31790*	c 37	US-PATENT-4,191,893	US-PATENT-4,218,650	US-PATENT-CLASS-156-163
		NASA-CASE-NPO-13786-1	N80-32716* c 37	US-PATENT-CLASS-156-212
		US-PATENT-APPL-SN-696374	NASA-CASE-MFS-23777-1	US-PATENT-CLASS-156-267
N80-32244*	c 76	US-PATENT-CLASS-148-1.5	US-PATENT-APPL-SN-931217	US-PATENT-CLASS-156-295
		US-PATENT-CLASS-357-30	US-PATENT-CLASS-318-15	US-PATENT-CLASS-156-323
		US-PATENT-CLASS-357-52	US-PATENT-CLASS-74-425	US-PATENT-CLASS-156-331
N80-32245*	c 76	US-PATENT-CLASS-357-91	US-PATENT-CLASS-74-665C	US-PATENT-4,032,089
		US-PATENT-4,090,213	US-PATENT-4,215,592	US-PATENT-4,225,372
		NASA-CASE-LEW-12274-1	N80-32717* c 37	NASA-CASE-LAR-12054-2
N80-32248*	c 76	US-PATENT-APPL-SN-950876	US-PATENT-APPL-SN-943086	US-PATENT-APPL-SN-011737
		US-PATENT-CLASS-417-383	US-PATENT-CLASS-198-847	US-PATENT-APPL-SN-839963
		US-PATENT-CLASS-60-520	US-PATENT-CLASS-198-848	US-PATENT-CLASS-264-137
N80-32359*	c 04	US-PATENT-4,215,548	US-PATENT-CLASS-474-205	US-PATENT-CLASS-427-385.5
		NASA-CASE-NPO-14298-1	US-PATENT-4,215,590	US-PATENT-CLASS-427-429
		US-PATENT-APPL-SN-938579	N80-33081* # c 52	US-PATENT-CLASS-428-473.5
N80-32392*	c 07	US-PATENT-CLASS-156-DIG.96	NASA-CASE-ARC-11258-1	US-PATENT-4,166,170
		US-PATENT-CLASS-156-DIG.88	US-PATENT-APPL-SN-185865	US-PATENT-4,233,258
		US-PATENT-CLASS-156-601	N80-33186* c 72	NASA-CASE-LEW-12940-1
N80-32392*	c 07	US-PATENT-CLASS-156-617SP	US-PATENT-APPL-SN-953391	US-PATENT-CLASS-313-231.4
		US-PATENT-4,217,165	US-PATENT-CLASS-313-362	US-PATENT-4,233,258
		NASA-CASE-NPO-14173-1	US-PATENT-4,218,633	N81-14103* c 28
N80-32484*	c 26	US-PATENT-APPL-SN-938581	N80-33210* c 74	NASA-CASE-LEW-12081-3
		US-PATENT-CLASS-343-112R	NASA-CASE-MSC-18255-1	US-PATENT-APPL-SN-009887
		US-PATENT-4,215,345	US-PATENT-APPL-SN-025163	US-PATENT-APPL-SN-676432
N80-32514*	c 27	US-PATENT-CLASS-75-124	US-PATENT-CLASS-250-347	US-PATENT-APPL-SN-837794
		US-PATENT-4,214,902	US-PATENT-CLASS-250-352	US-PATENT-CLASS-149-1
		NASA-CASE-NPO-13137-1	US-PATENT-CLASS-250-353	US-PATENT-CLASS-156-344
N80-32515*	c 27	US-PATENT-APPL-SN-332123	US-PATENT-CLASS-350-55	US-PATENT-CLASS-423-648R
		US-PATENT-APPL-SN-374810	US-PATENT-CLASS-356-72	US-PATENT-CLASS-44-7R
		US-PATENT-CLASS-568-852	US-PATENT-4,215,273	US-PATENT-CLASS-55-2
N80-32516*	c 27	US-PATENT-CLASS-568-861	US-PATENT-4,215,273	US-PATENT-CLASS-62-12
		US-PATENT-4,118,427	N80-33482* c 24	US-PATENT-CLASS-62-18
		NASA-CASE-NPO-13899-1	NASA-CASE-LEW-11930-3	US-PATENT-CLASS-62-40
N80-32583*	c 31	US-PATENT-APPL-SN-971596	US-PATENT-APPL-SN-513611	US-PATENT-CLASS-62-47
		US-PATENT-CLASS-156-272	US-PATENT-APPL-SN-616528	US-PATENT-4,077,788
		US-PATENT-CLASS-156-292	US-PATENT-APPL-SN-764245	US-PATENT-4,193,827
N80-32604*	c 32	US-PATENT-CLASS-204-159.11	US-PATENT-CLASS-75-200	US-PATENT-4,229,196
		US-PATENT-CLASS-204-159.14	US-PATENT-CLASS-75-222	N81-14137* c 31
		US-PATENT-CLASS-264-212	US-PATENT-4,214,905	NASA-CASE-KSC-11064-1
N80-32605*	c 32	US-PATENT-CLASS-264-22	N81-12330* # c 33	US-PATENT-APPL-SN-897840
		US-PATENT-CLASS-427-44	NASA-CASE-MFS-25535-1	US-PATENT-CLASS-169-62
		US-PATENT-CLASS-428-500	US-PATENT-APPL-SN-199765	US-PATENT-CLASS-169-70
N80-32650*	c 31	US-PATENT-CLASS-429-139	N81-12542* c 44	US-PATENT-4,219,084
		US-PATENT-4,218,280	NASA-CASE-LEW-12806-2	N81-14185* c 32
		NASA-CASE-GSC-12191-1	US-PATENT-APPL-SN-065676	NASA-CASE-NPO-14536-1
N80-32584*	c 31	US-PATENT-APPL-SN-009886	US-PATENT-APPL-SN-915050	US-PATENT-APPL-SN-974471
		US-PATENT-CLASS-165-16	US-PATENT-CLASS-136-249	US-PATENT-CLASS-343-100TD
		US-PATENT-CLASS-236-13	US-PATENT-CLASS-136-291	US-PATENT-4,233,606
N80-32584*	c 31	US-PATENT-CLASS-236-44C	US-PATENT-CLASS-363-147	N81-14186* c 32
		US-PATENT-CLASS-236-49	US-PATENT-CLASS-363-27	NASA-CASE-NPO-14749-1
		US-PATENT-4,210,278	US-PATENT-CLASS-363-60	US-PATENT-APPL-SN-078521
N80-32584*	c 31	US-PATENT-4,210,278	US-PATENT-4,217,633	US-PATENT-CLASS-375-107
		NASA-CASE-NPO-14191-1	N81-13999* c 24	US-PATENT-CLASS-455-51
		US-PATENT-APPL-SN-830846	NASA-CASE-ARC-11174-1	US-PATENT-CLASS-455-619
N80-32604*	c 32	US-PATENT-CLASS-181-102	US-PATENT-APPL-SN-929086	US-PATENT-CLASS-455-71
		US-PATENT-CLASS-367-27	US-PATENT-CLASS-260-17.2	US-PATENT-4,234,971
		US-PATENT-CLASS-367-36	US-PATENT-CLASS-428-114	N81-14187* c 32
N80-32605*	c 32	US-PATENT-CLASS-367-57	US-PATENT-CLASS-428-528	NASA-CASE-MSC-16800-1
		US-PATENT-4,214,226	US-PATENT-CLASS-428-541	US-PATENT-APPL-SN-953313
		NASA-CASE-MSC-18334-1	US-PATENT-CLASS-428-921	US-PATENT-CLASS-343-727
N80-32605*	c 32	US-PATENT-APPL-SN-051270	US-PATENT-4,209,561	US-PATENT-CLASS-343-789
		US-PATENT-CLASS-343-700MS	N81-14000* c 24	US-PATENT-CLASS-343-797
		US-PATENT-CLASS-343-830	NASA-CASE-LAR-12065-1	US-PATENT-4,218,685
N80-32605*	c 32	US-PATENT-4,218,682	US-PATENT-APPL-SN-889671	N81-14220* c 33
		NASA-CASE-NPO-14253-1	US-PATENT-CLASS-156-330	NASA-CASE-NPO-14163-1
		NASA-CASE-NPO-14640-1	US-PATENT-CLASS-428-113	US-PATENT-APPL-SN-878541
N80-32605*	c 32		US-PATENT-CLASS-428-114	US-PATENT-CLASS-363-56
			US-PATENT-CLASS-428-140	US-PATENT-CLASS-363-71
			US-PATENT-CLASS-428-413	US-PATENT-CLASS-363-78
N80-32605*	c 32		US-PATENT-CLASS-428-480	US-PATENT-4,222,098
			US-PATENT-CLASS-428-902	N81-14221* c 33
			US-PATENT-4,229,473	NASA-CASE-GSC-12411-1
N80-32605*	c 32		N81-14015* c 25	US-PATENT-APPL-SN-965367
			NASA-CASE-NPO-14143-1	US-PATENT-CLASS-340-309.4
			US-PATENT-APPL-SN-938297	US-PATENT-CLASS-340-310A
N80-32605*	c 32		US-PATENT-CLASS-250-343	US-PATENT-CLASS-340-310R
			US-PATENT-CLASS-356-437	US-PATENT-CLASS-340-870.24
			US-PATENT-4,234,258	US-PATENT-CLASS-368-47
N80-32605*	c 32		N81-14016* c 25	US-PATENT-CLASS-370-85
			NASA-CASE-ARC-11241-1	US-PATENT-4,228,422
			US-PATENT-APPL-SN-037066	N81-14287* c 35
N80-32605*	c 32		US-PATENT-CLASS-260-33.8F	NASA-CASE-NPO-14513-1
			US-PATENT-CLASS-528-362	US-PATENT-APPL-SN-025162
			US-PATENT-CLASS-528-401	US-PATENT-CLASS-165-105
N80-32605*	c 32		US-PATENT-CLASS-528-422	US-PATENT-CLASS-62-514R
			US-PATENT-4,234,715	US-PATENT-4,218,892
			N81-14076* c 27	NASA-CASE-MSC-16973-1
N80-32605*	c 32		NASA-CASE-NPO-14001-1	US-PATENT-APPL-SN-969756
			US-PATENT-APPL-SN-771245	US-PATENT-CLASS-150-11
			US-PATENT-CLASS-210-24R	US-PATENT-CLASS-156-294
N80-32605*	c 32		US-PATENT-CLASS-260-17A	US-PATENT-CLASS-52-232
			US-PATENT-CLASS-260-2.1E	US-PATENT-CLASS-52-743
			US-PATENT-CLASS-260-858	US-PATENT-4,235,060
N80-32605*	c 32		US-PATENT-CLASS-260-886	N81-14318* c 37
			US-PATENT-CLASS-260-8900	NASA-CASE-NPO-14220-1
			US-PATENT-CLASS-260-895	US-PATENT-APPL-SN-907421

		US-PATENT-CLASS-60-518				US-PATENT-CLASS-375-1				US-PATENT-CLASS-333-204
		US-PATENT-CLASS-74-417				US-PATENT-CLASS-375-115				US-PATENT-4,227,096
		US-PATENT-4,228,656				US-PATENT-CLASS-375-58				NASA-CASE-MSC-16747-1
N81-14319*	c 37	NASA-CASE-LAR-11855-1				US-PATENT-4,221,005	N81-17349*	c 33		US-PATENT-APPL-SN-974475
		US-PATENT-APPL-SN-953314				NASA-CASE-NPO-14444-1				US-PATENT-CLASS-328-134
		US-PATENT-CLASS-407-117				US-PATENT-APPL-SN-017890				US-PATENT-CLASS-328-37
		US-PATENT-CLASS-407-85				US-PATENT-CLASS-332-22				US-PATENT-CLASS-328-55
		US-PATENT-CLASS-408-1R				US-PATENT-CLASS-332-23R				US-PATENT-CLASS-331-48
		US-PATENT-CLASS-82-1.2				US-PATENT-CLASS-375-54				US-PATENT-4,241,308
		US-PATENT-CLASS-82-1C				US-PATENT-CLASS-375-67	N81-17432*	c 37		NASA-CASE-NPO-14388-1
		US-PATENT-CLASS-82-36R				US-PATENT-CLASS-455-102				US-PATENT-APPL-SN-008208
		US-PATENT-4,218,941				US-PATENT-4,216,542				US-PATENT-CLASS-60-518
N81-14320*	c 37	NASA-CASE-GSC-12429-1				NASA-CASE-MSC-18134-1				US-PATENT-CLASS-74-417
		US-PATENT-APPL-SN-009888				US-PATENT-APPL-SN-974472				US-PATENT-4,240,256
		US-PATENT-CLASS-244-161				US-PATENT-CLASS-277-181	N81-17433*	c 37		NASA-CASE-ARC-11251-1
		US-PATENT-CLASS-294-106				US-PATENT-CLASS-277-229				US-PATENT-APPL-SN-057465
		US-PATENT-CLASS-414-1				US-PATENT-4,219,203				US-PATENT-CLASS-128-DIG.20
		US-PATENT-4,219,171				NASA-CASE-NPO-14170-1				US-PATENT-CLASS-137-549
N81-14389*	c 44	NASA-CASE-NPO-14416-1				US-PATENT-APPL-SN-860404				US-PATENT-CLASS-137-886
		US-PATENT-APPL-SN-014664				US-PATENT-CLASS-188-134				US-PATENT-CLASS-137-887
		US-PATENT-CLASS-29-DIG.1				US-PATENT-CLASS-188-180				US-PATENT-CLASS-251-216
		US-PATENT-CLASS-29-832				US-PATENT-CLASS-188-184				US-PATENT-CLASS-251-339
		US-PATENT-4,219,926				US-PATENT-CLASS-244-173				US-PATENT-4,239,057
N81-14605*	c 51	NASA-CASE-ARC-11114-1				US-PATENT-4,219,103	N81-17499*	c 43		NASA-CASE-FRC-11013-1
		US-PATENT-APPL-SN-951422				NASA-CASE-NPO-14162-1				US-PATENT-APPL-SN-043912
		US-PATENT-CLASS-128-DIG.12				NASA-CASE-NPO-14167-1				US-PATENT-CLASS-244-160
		US-PATENT-CLASS-128-DIG.16				NASA-CASE-NPO-14169-1				US-PATENT-CLASS-244-49
		US-PATENT-CLASS-128-DIG.26				US-PATENT-APPL-SN-893903				US-PATENT-4,240,601
		US-PATENT-CLASS-128-DIG.6				US-PATENT-CLASS-307-219	N81-17518*	c 44		NASA-CASE-NPO-14619-1
		US-PATENT-CLASS-128-DIG.9				US-PATENT-CLASS-307-225R				US-PATENT-APPL-SN-027559
		US-PATENT-CLASS-128-204.18				US-PATENT-CLASS-307-269				US-PATENT-CLASS-126-419
		US-PATENT-CLASS-128-207.14				US-PATENT-CLASS-307-291				US-PATENT-CLASS-60-524
		US-PATENT-CLASS-128-207.28				US-PATENT-CLASS-328-192				US-PATENT-CLASS-60-641
		US-PATENT-CLASS-128-236				US-PATENT-CLASS-328-48				US-PATENT-4,236,383
		US-PATENT-4,212,297				US-PATENT-CLASS-328-71	N81-17886*	c 74		NASA-CASE-NPO-14219-1
N81-14612*	c 52	NASA-CASE-ARC-11117-1				US-PATENT-4,213,064				US-PATENT-APPL-SN-888432
		US-PATENT-APPL-SN-003693				NASA-CASE-MFS-25050-1				US-PATENT-CLASS-350-301
		US-PATENT-CLASS-128-642				US-PATENT-APPL-SN-057466				US-PATENT-CLASS-354-118
		US-PATENT-4,219,027				US-PATENT-CLASS-308-10				US-PATENT-CLASS-362-11
N81-14613*	c 52	NASA-CASE-ARC-11118-2				US-PATENT-CLASS-73-505				US-PATENT-CLASS-362-241
		US-PATENT-APPL-SN-850504				US-PATENT-4,218,921				US-PATENT-4,213,684
		US-PATENT-APPL-SN-974476				NASA-CASE-LEW-23169-2	N81-17887*	c 74		NASA-CASE-NPO-14657-1
		US-PATENT-CLASS-424-274				US-PATENT-APPL-SN-191746				US-PATENT-APPL-SN-008211
		US-PATENT-4,230,717				NASA-CASE-FRC-11029-1				US-PATENT-CLASS-356-432
N81-14968*	c 02	NASA-CASE-LAR-12326-1				US-PATENT-APPL-SN-164617				US-PATENT-CLASS-73-15R
		US-PATENT-APPL-SN-019541				US-PATENT-CLASS-73-147				US-PATENT-4,243,327
		US-PATENT-CLASS-102-56R				US-PATENT-CLASS-73-178R	N81-17888*	c 74		NASA-CASE-NPO-14502-1
		US-PATENT-CLASS-102-92.1				US-PATENT-4,240,290				US-PATENT-APPL-SN-965368
		US-PATENT-CLASS-244-119				NASA-CASE-LEW-12493-1				US-PATENT-CLASS-356-345
		US-PATENT-CLASS-244-130				US-PATENT-APPL-SN-893857				US-PATENT-CLASS-356-352
		US-PATENT-4,225,102				US-PATENT-CLASS-156-292				US-PATENT-CLASS-356-358
N81-14999*	c 07	NASA-CASE-LEW-13201-1				US-PATENT-CLASS-228-118				US-PATENT-4,243,323
		US-PATENT-APPL-SN-038980				US-PATENT-CLASS-228-170	N81-19087*	c 05		NASA-CASE-LAR-11797-1
		US-PATENT-CLASS-137-15.1				US-PATENT-CLASS-228-174				US-PATENT-APPL-SN-969755
		US-PATENT-CLASS-181-214				US-PATENT-CLASS-228-190				US-PATENT-CLASS-244-17.25
		US-PATENT-4,220,171				US-PATENT-4,211,354				US-PATENT-CLASS-416-114
N81-15104*	c 27	NASA-CASE-NPO-10830-1				NASA-CASE-NPO-13530-1				US-PATENT-CLASS-416-500
		US-PATENT-APPL-SN-825489				US-PATENT-CLASS-210-500M				US-PATENT-CLASS-74-519
		US-PATENT-CLASS-117-6				US-PATENT-CLASS-260-2.1				US-PATENT-4,245,956
		US-PATENT-CLASS-138.8R				US-PATENT-CLASS-260-2.2R	N81-19115*	c 07		NASA-CASE-LEW-12907-2
		US-PATENT-CLASS-260-33.6UB				US-PATENT-4,014,798				US-PATENT-APPL-SN-752050
		US-PATENT-CLASS-33.8UB				NASA-CASE-ARC-11248-1				US-PATENT-APPL-SN-909235
		US-PATENT-CLASS-37N				US-PATENT-APPL-SN-028300	N81-17259*	c 27		US-PATENT-CLASS-364-106
		US-PATENT-CLASS-41R				US-PATENT-CLASS-528-362				US-PATENT-CLASS-364-431
		US-PATENT-CLASS-77.5AQ				US-PATENT-CLASS-528-401				US-PATENT-CLASS-60-39.24
		US-PATENT-CLASS-77.5CH				US-PATENT-CLASS-528-422				US-PATENT-4,249,238
		US-PATENT-CLASS-859R				US-PATENT-CLASS-528-423				NASA-CASE-LEW-12594-2
		US-PATENT-CLASS-94.9N				US-PATENT-4,242,498	N81-19116*	c 07		US-PATENT-APPL-SN-741056
		US-PATENT-3,655,814				NASA-CASE-LEW-13226-1				US-PATENT-APPL-SN-909608
N81-15119*	c 28	NASA-CASE-NPO-14110-1				US-PATENT-APPL-SN-070771				US-PATENT-CLASS-60-226R
		US-PATENT-APPL-SN-947000				US-PATENT-CLASS-260-326N				US-PATENT-CLASS-60-236
		US-PATENT-CLASS-149-108.4				US-PATENT-CLASS-260-326S				US-PATENT-CLASS-60-238
		US-PATENT-CLASS-23-293R				US-PATENT-CLASS-260-37EP				US-PATENT-CLASS-60-239
		US-PATENT-CLASS-252-364				US-PATENT-CLASS-528-118				US-PATENT-4,242,864
		US-PATENT-CLASS-260-96D				US-PATENT-CLASS-528-322	N81-19130*	c 08		NASA-CASE-LAR-11970-2
		US-PATENT-CLASS-423-1				US-PATENT-CLASS-538-117				US-PATENT-APPL-SN-034104
		US-PATENT-CLASS-423-131				US-PATENT-4,244,857				US-PATENT-APPL-SN-727503
		US-PATENT-CLASS-423-658.5				NASA-CASE-NPO-14315-1				US-PATENT-CLASS-244-12.5
		US-PATENT-CLASS-525-384				US-PATENT-APPL-SN-900659				US-PATENT-CLASS-244-52
		US-PATENT-CLASS-526-914				US-PATENT-CLASS-201-10				US-PATENT-CLASS-244-87
		US-PATENT-CLASS-75-25				US-PATENT-CLASS-201-25				US-PATENT-4,236,684
		US-PATENT-4,229,182				US-PATENT-CLASS-201-8	N81-19242*	c 25		NASA-CASE-MFS-25000-1
N81-15154*	c 31	NASA-CASE-NPO-13758-2				US-PATENT-CLASS-44-50				US-PATENT-APPL-SN-974474
		US-PATENT-APPL-SN-823389				US-PATENT-CLASS-44-62				US-PATENT-CLASS-260-29.6RB
		US-PATENT-APPL-SN-727444				US-PATENT-4,246,001				US-PATENT-CLASS-526-201
		US-PATENT-CLASS-110-218				NASA-CASE-ARC-11253-1				US-PATENT-CLASS-526-88
		US-PATENT-CLASS-110-229				US-PATENT-APPL-SN-028301				US-PATENT-4,247,434
		US-PATENT-CLASS-110-232				US-PATENT-CLASS-528-310	N81-19244*	c 25		NASA-CASE-NPO-13309-1
		US-PATENT-CLASS-110-343				US-PATENT-CLASS-528-362				US-PATENT-APPL-SN-363130
		US-PATENT-CLASS-110-347				US-PATENT-CLASS-528-401				US-PATENT-CLASS-210-24
		US-PATENT-CLASS-202-118				US-PATENT-CLASS-528-422				US-PATENT-CLASS-260-2.1E
		US-PATENT-CLASS-264-23				US-PATENT-4,245,085				US-PATENT-CLASS-260-2.2R
		US-PATENT-CLASS-425-378R				NASA-CASE-MFS-23845-1				US-PATENT-CLASS-264-41
		US-PATENT-4,206,713				US-PATENT-APPL-SN-938298				US-PATENT-3,944,485
N81-15179*	c 32	NASA-CASE-MSC-18035-1				US-PATENT-CLASS-307-233R	N81-19296*	c 27		NASA-CASE-LEW-12933-1
		US-PATENT-APPL-SN-041142				US-PATENT-CLASS-307-306				US-PATENT-APPL-SN-027557

				US-PATENT-CLASS-260-33.4R	N81-22360* #	c 37	.....	NASA-CASE-LEW-12445-1	US-PATENT-CLASS-422-3		
				US-PATENT-CLASS-427-221				US-PATENT-APPL-SN-238887	US-PATENT-CLASS-422-30			
				US-PATENT-CLASS-427-379	N81-24106*	c 08	.....	NASA-CASE-LAR-12268-1	US-PATENT-CLASS-422-34		
				US-PATENT-CLASS-528-353				US-PATENT-APPL-SN-015996	US-PATENT-4,250,143			
N81-19343*	c 31	.....		US-PATENT-4,244,853				US-PATENT-CLASS-244-181	N81-24779* c 62	.....	NASA-CASE-KSC-11048-1
				NASA-CASE-GSC-12513-1				US-PATENT-CLASS-244-195			US-PATENT-APPL-SN-023437	
				US-PATENT-APPL-SN-053571				US-PATENT-CLASS-318-584			US-PATENT-CLASS-364-200	
				US-PATENT-CLASS-109-49.5				US-PATENT-CLASS-364-434			US-PATENT-4,254,464	
				US-PATENT-CLASS-109-58.5	N81-24256*	c 27	.....	US-PATENT-4,261,537	N81-24900* c 74	.....	NASA-CASE-GSC-12528-1
				US-PATENT-CLASS-220-82R				NASA-CASE-ARC-11253-3			US-PATENT-APPL-SN-111439	
				US-PATENT-CLASS-220-89A				US-PATENT-APPL-SN-028301			US-PATENT-CLASS-250-368	
				US-PATENT-CLASS-49-171				US-PATENT-APPL-SN-145283			US-PATENT-CLASS-250-483	
				US-PATENT-4,245,566				US-PATENT-CLASS-260-465.5R			US-PATENT-4,262,206	
N81-19389*	c 33	.....		NASA-CASE-NPO-14297-1				US-PATENT-CLASS-528-310	N81-25159* c 25	.....	NASA-CASE-NPO-15102-1
				US-PATENT-APPL-SN-938299				US-PATENT-CLASS-564-229			US-PATENT-APPL-SN-154726	
				US-PATENT-CLASS-156-DIG.96				US-PATENT-4,269,787			US-PATENT-CLASS-250-350	
				US-PATENT-CLASS-156-608	N81-24257*	c 27	.....	NASA-CASE-LEW-13135-2			US-PATENT-CLASS-356-432
				US-PATENT-CLASS-219-10.49R				US-PATENT-APPL-SN-113014			US-PATENT-4,253,769	
				US-PATENT-CLASS-219-10.67				US-PATENT-APPL-SN-971475	N81-25188* c 26	.....	NASA-CASE-LEW-13088-1
				US-PATENT-CLASS-422-246				US-PATENT-CLASS-264-104			US-PATENT-APPL-SN-089779	
				US-PATENT-CLASS-422-249				US-PATENT-CLASS-264-105			US-PATENT-CLASS-428-471	
				US-PATENT-CLASS-432-264				US-PATENT-CLASS-429-139			US-PATENT-CLASS-428-632	
				US-PATENT-4,242,553				US-PATENT-CLASS-429-249			US-PATENT-CLASS-428-678	
N81-19392*	c 33	.....		NASA-CASE-GSC-12360-1				US-PATENT-CLASS-429-253			US-PATENT-CLASS-428-679
				US-PATENT-APPL-SN-041164				US-PATENT-CLASS-429-27			US-PATENT-CLASS-428-680	
				US-PATENT-CLASS-363-101				US-PATENT-CLASS-429-28			US-PATENT-4,255,495	
				US-PATENT-CLASS-363-21	N81-24258*	c 27	.....	US-PATENT-CLASS-525-61	N81-25209* c 27	.....	NASA-CASE-MSC-18107-1
				US-PATENT-4,245,286				US-PATENT-4,262,067			US-PATENT-APPL-SN-956168	
N81-19393*	c 33	.....		NASA-CASE-NPO-14505-1				NASA-CASE-NPO-10424-1			US-PATENT-CLASS-430-271
				US-PATENT-APPL-SN-956166				US-PATENT-APPL-SN-692636			US-PATENT-CLASS-430-325	
				US-PATENT-CLASS-363-21				US-PATENT-CLASS-260-37			US-PATENT-CLASS-430-329	
				US-PATENT-CLASS-363-36				US-PATENT-3,651,008			US-PATENT-CLASS-430-330	
				US-PATENT-CLASS-363-40	N81-24280*	c 28	.....	NASA-CASE-MSC-16394-1	N81-25258* c 31	.....	US-PATENT-4,262,080
				US-PATENT-CLASS-363-47				US-PATENT-APPL-SN-161255			NASA-CASE-LAR-12095-1	
				US-PATENT-4,245,288				US-PATENT-CLASS-204-129			US-PATENT-APPL-SN-811401	
N81-19426*	c 35	.....		NASA-CASE-MFS-23923-1				US-PATENT-CLASS-204-252			US-PATENT-CLASS-244-158R
				US-PATENT-APPL-SN-053569				US-PATENT-CLASS-204-266			US-PATENT-CLASS-403-171	
				US-PATENT-CLASS-73-190R				US-PATENT-CLASS-204-290F			US-PATENT-CLASS-428-902	
				US-PATENT-4,248,083				US-PATENT-CLASS-204-290R			US-PATENT-CLASS-52-309.1	
N81-19427*	c 35	.....		NASA-CASE-MSC-16370-1				US-PATENT-CLASS-204-291			US-PATENT-CLASS-52-648
				US-PATENT-APPL-SN-061556	N81-24338*	c 33	.....	US-PATENT-4,263,112			US-PATENT-CLASS-52-726
				US-PATENT-CLASS-329-107				NASA-CASE-NPO-14617-1	N81-25259* c 31	.....	US-PATENT-4,259,821
				US-PATENT-CLASS-329-50				US-PATENT-APPL-SN-051269			NASA-CASE-LAR-12077-1	
				US-PATENT-CLASS-375-1				US-PATENT-CLASS-330-8			US-PATENT-APPL-SN-014663	
				US-PATENT-CLASS-375-104				US-PATENT-4,262,259			US-PATENT-CLASS-52-645	
				US-PATENT-CLASS-375-34	N81-24422*	c 36	.....	NASA-CASE-LAR-12177-1	N81-25278* c 32	.....	US-PATENT-4,259,825
				US-PATENT-CLASS-375-99				US-PATENT-APPL-SN-027558			NASA-CASE-NPO-14588-1	
				US-PATENT-4,241,312				US-PATENT-CLASS-356-28.5			US-PATENT-APPL-SN-008209	
N81-19455*	c 37	.....		NASA-CASE-LEW-12982-1				US-PATENT-CLASS-356-356			US-PATENT-CLASS-343-755
				US-PATENT-APPL-SN-929084				US-PATENT-CLASS-356-358			US-PATENT-CLASS-343-772	
				US-PATENT-CLASS-204-192E				US-PATENT-4,255,048			US-PATENT-CLASS-343-781R	
				US-PATENT-CLASS-228-116	N81-24442*	c 37	.....	NASA-CASE-LEW-12991-1			US-PATENT-CLASS-343-786
				US-PATENT-CLASS-228-205				US-PATENT-APPL-SN-961832			US-PATENT-4,258,366	
				US-PATENT-4,245,768				US-PATENT-CLASS-277-96	N81-25299* c 33	.....	NASA-CASE-GSC-12399-1
N81-19558*	c 44	.....		NASA-CASE-NPO-14670-1				US-PATENT-4,260,166			US-PATENT-APPL-SN-961831
				US-PATENT-APPL-SN-043941	N81-24443*	c 37	.....	NASA-CASE-LAR-11695-2			US-PATENT-CLASS-70-58
				US-PATENT-CLASS-136-258				US-PATENT-APPL-SN-103836			US-PATENT-CLASS-52-007	
				US-PATENT-CLASS-252-62.3E				US-PATENT-APPL-SN-893865	N81-25370* c 37	.....	NASA-CASE-NPO-14221-1
				US-PATENT-CLASS-357-30				US-PATENT-CLASS-152-330RF			US-PATENT-APPL-SN-907431	
				US-PATENT-CLASS-357-59				US-PATENT-CLASS-152-353G			US-PATENT-CLASS-60-517	
				US-PATENT-CLASS-357-63				US-PATENT-CLASS-152-353R			US-PATENT-CLASS-60-525	
				US-PATENT-4,249,957				US-PATENT-CLASS-152-379.4			US-PATENT-4,255,929	
N81-19896*	c 74	.....		NASA-CASE-NPO-11337-1				US-PATENT-CLASS-244-103R	N81-25371* c 37	.....	NASA-CASE-NPO-13823-1
				NASA-CASE-NPO-11575-1				US-PATENT-CLASS-244-130			US-PATENT-APPL-SN-658487	
				US-PATENT-APPL-SN-090584				US-PATENT-4,267,992			US-PATENT-CLASS-106-43	
				US-PATENT-APPL-SN-276599	N81-24519*	c 44	.....	NASA-CASE-LEW-12441-3			US-PATENT-CLASS-264-332
				US-PATENT-CLASS-340-146.3H				US-PATENT-APPL-SN-032307			US-PATENT-4,252,768	
				US-PATENT-CLASS-340-146.3S				US-PATENT-APPL-SN-856462	N81-25400* c 39	.....	NASA-CASE-NPO-14363-1
				US-PATENT-CLASS-340-146.3Y				US-PATENT-CLASS-239-127.1			US-PATENT-APPL-SN-969760	
				US-PATENT-3,845,466				US-PATENT-CLASS-60-204			US-PATENT-CLASS-356-213	
N81-19898*	c 74	.....		NASA-CASE-NPO-12087-1				US-PATENT-CLASS-60-267			US-PATENT-CLASS-356-216
				US-PATENT-APPL-SN-095217				US-PATENT-4,199,937			US-PATENT-CLASS-356-234	
				US-PATENT-CLASS-250-83.6R	N81-24520*	c 44	.....	US-PATENT-4,245,469			US-PATENT-CLASS-356-32
				US-PATENT-3,704,284				NASA-CASE-MFS-23999-1	N81-25660* c 52	.....	US-PATENT-4,252,440
N81-20352* #	c 33	.....		NASA-CASE-NPO-13970-1				US-PATENT-APPL-SN-060435			NASA-CASE-MFS-23717-1
				US-PATENT-APPL-SN-023484				US-PATENT-CLASS-250-203R			US-PATENT-APPL-SN-950877	
				US-PATENT-CLASS-318-138				US-PATENT-CLASS-250-209			US-PATENT-CLASS-128-DIG.25	
				US-PATENT-CLASS-318-254				US-PATENT-4,262,195			US-PATENT-CLASS-128-1R	
				US-PATENT-CLASS-318-439	N81-24521*	c 44	.....	NASA-CASE-LEW-12918-1			US-PATENT-CLASS-128-346
				US-PATENT-4,249,116				US-PATENT-APPL-SN-134855			US-PATENT-CLASS-137-493	
N81-20703*	c 52	.....		NASA-CASE-NPO-14329-1				US-PATENT-CLASS-429-120			US-PATENT-4,256,093
				US-PATENT-APPL-SN-044432				US-PATENT-CLASS-429-160	N81-25661* c 52	.....	NASA-CASE-GSC-12082-2
				US-PATENT-CLASS-128-642				US-PATENT-CLASS-429-164			US-PATENT-APPL-SN-676958	
				US-PATENT-CLASS-128-774				US-PATENT-CLASS-429-94			US-PATENT-APPL-SN-798976	
				US-PATENT-CLASS-73-141A				US-PATENT-4,262,064			US-PATENT-CLASS-128-80F	
				US-PATENT-4,249,417	N81-24711*	c 52	.....	NASA-CASE-MSC-16433-1			US-PATENT-4,252,111
N81-21047*	c 04	.....		NASA-CASE-ARC-11257-1				US-PATENT-APPL-SN-910992	N81-25662* c 52	.....	NASA-CASE-ARC-11167-1
				US-PATENT-APPL-SN-078611				US-PATENT-CLASS-128-295			US-PATENT-APPL-SN-057526	
				US-PATENT-CLASS-73-178R				US-PATENT-CLASS-128-761			US-PATENT-CLASS-128-89R	
				US-PATENT-CLASS-73-490				US-PATENT-CLASS-4-144.3			US-PATENT-4,261,349	
				US-PATENT-CLASS-73-504				US-PATENT-4,246,901	N81-26073* #	c 02	NASA-CASE-KSC-11042-2
				US-PATENT-4,244,215	N81-24724*	c 54	.....	NASA-CASE-KSC-11085-1			US-PATENT-APPL-SN-154663
N81-22280* #	c 33	.....		NASA-CASE-MFS-24368-3				US-PATENT-APPL-SN-046739	N81-26114* c 05	.....	NASA-CASE-LAR-12406-1
				US-PATENT-APPL-SN-243683				US-PATENT-CLASS-261-79A			US-PATENT-APPL-SN-008210	
N81-22344* #	c 36	.....		NASA-CASE-GSC-12609-1				US-PATENT-CLASS-422-109			US-PATENT-CLASS-165-104.14
				US-PATENT-APPL-SN-218586				US-PATENT-CLASS-422-27			US-PATENT-CLASS-244-117A	

				US-PATENT-CLASS-244-163				US-PATENT-CLASS-528-6				US-PATENT-APPL-SN-102002
				US-PATENT-CLASS-60-259				US-PATENT-4,276,403				US-PATENT-CLASS-364-453
				US-PATENT-CLASS-60-267				NASA-CASE-ARC-11321-1				US-PATENT-CLASS-364-566
				US-PATENT-CLASS-60-730		N81-27272*	c 27	US-PATENT-APPL-SN-175452				US-PATENT-CLASS-73-178R
				US-PATENT-CLASS-62-DIG.5				US-PATENT-CLASS-428-260				US-PATENT-CLASS-73-510
				US-PATENT-4,273,304				US-PATENT-CLASS-428-367				US-PATENT-4,281,384
N81-26152*	c 08			NASA-CASE-LAR-12562-1				US-PATENT-CLASS-428-408		N81-29160*	c 23	NASA-CASE-LEW-13101-2
				US-PATENT-APPL-SN-015995				US-PATENT-CLASS-428-902				US-PATENT-APPL-SN-145271
				US-PATENT-CLASS-244-181				US-PATENT-CLASS-428-920				US-PATENT-APPL-SN-971473
				US-PATENT-CLASS-244-182				US-PATENT-CLASS-526-262				US-PATENT-CLASS-260-17.4UC
				US-PATENT-4,266,743				US-PATENT-CLASS-528-228				US-PATENT-CLASS-264-104
N81-26161*	c 14			NASA-CASE-LAR-12250-1		N81-27323*	c 31	US-PATENT-4,276,344				US-PATENT-CLASS-428-139
				US-PATENT-APPL-SN-910794				NASA-CASE-MSC-16217-1				US-PATENT-CLASS-429-249
				US-PATENT-CLASS-244-160				US-PATENT-APPL-SN-893383				US-PATENT-CLASS-429-253
				US-PATENT-CLASS-244-2				US-PATENT-CLASS-52-108				US-PATENT-CLASS-429-27
				US-PATENT-CLASS-244-63				US-PATENT-CLASS-52-745				US-PATENT-CLASS-429-28
				US-PATENT-4,265,416				US-PATENT-4,237,662				US-PATENT-CLASS-525-56
N81-26179*	c 24			NASA-CASE-LEW-12493-2		N81-27324*	c 31	NASA-CASE-LAR-12195-1				US-PATENT-CLASS-525-61
				US-PATENT-APPL-SN-122967				US-PATENT-APPL-SN-846991				US-PATENT-4,272,470
				US-PATENT-APPL-SN-893857				US-PATENT-CLASS-182-62.5		N81-29163*	c 24	NASA-CASE-MFS-23674-1
				US-PATENT-CLASS-228-118				US-PATENT-CLASS-212-267				US-PATENT-APPL-SN-912276
				US-PATENT-CLASS-228-190				US-PATENT-CLASS-52-111				US-PATENT-CLASS-156-161
				US-PATENT-4,211,354				US-PATENT-CLASS-52-632				US-PATENT-CLASS-156-165
				US-PATENT-4,267,953				US-PATENT-4,238,911				US-PATENT-CLASS-156-285
N81-26358*	c 33			NASA-CASE-LAR-12196-1		N81-27341*	c 32	NASA-CASE-GSC-12147-1				US-PATENT-CLASS-156-294
				US-PATENT-APPL-SN-017887				US-PATENT-APPL-SN-780873				US-PATENT-CLASS-156-74
				US-PATENT-CLASS-343-100PE				US-PATENT-CLASS-343-112R				US-PATENT-CLASS-264-229
				US-PATENT-4,264,908				US-PATENT-4,276,553				US-PATENT-CLASS-264-231
N81-26359*	c 33			NASA-CASE-KSC-11065-1		N81-27395*	c 33	NASA-CASE-MFS-23988-1				US-PATENT-CLASS-264-258
				US-PATENT-APPL-SN-051271				US-PATENT-APPL-SN-044431				US-PATENT-CLASS-264-259
				US-PATENT-CLASS-324-51				US-PATENT-CLASS-307-252UA				US-PATENT-CLASS-264-311
				US-PATENT-CLASS-324-73AT				US-PATENT-CLASS-318-799				US-PATENT-CLASS-74-572
				US-PATENT-CLASS-371-20				US-PATENT-CLASS-318-810				US-PATENT-4,190,626
				US-PATENT-CLASS-371-25				US-PATENT-4,266,177		N81-29229*	c 27	NASA-CASE-LAR-12642-1
				US-PATENT-4,267,594				NASA-CASE-NPO-14426-1				US-PATENT-APPL-SN-092141
N81-26360*	c 33			NASA-CASE-GSC-12515-1		N81-27396*	c 33	US-PATENT-APPL-SN-009889				US-PATENT-CLASS-264-137
				US-PATENT-APPL-SN-172727				US-PATENT-CLASS-307-352				US-PATENT-CLASS-428-473.5
				US-PATENT-CLASS-148-1.5				US-PATENT-CLASS-307-353				US-PATENT-CLASS-528-222
				US-PATENT-CLASS-148-187				US-PATENT-CLASS-328-151				US-PATENT-CLASS-528-229
				US-PATENT-CLASS-156-647				US-PATENT-4,262,258				US-PATENT-4,281,102
				US-PATENT-CLASS-156-648		N81-27397*	c 33	NASA-CASE-MSC-12745-1		N81-29308*	c 32	NASA-CASE-NPO-14641-1
				US-PATENT-CLASS-156-649				US-PATENT-APPL-SN-746579				US-PATENT-APPL-SN-076643
				US-PATENT-CLASS-29-571				US-PATENT-CLASS-179-78				US-PATENT-CLASS-343-100CL
				US-PATENT-CLASS-29-578				US-PATENT-CLASS-333-12				US-PATENT-CLASS-455-278
				US-PATENT-CLASS-29-580				US-PATENT-CLASS-361-56				US-PATENT-4,278,978
				US-PATENT-CLASS-357-23				US-PATENT-CLASS-361-91		N81-29342*	c 33	NASA-CASE-GSC-12111-2
				US-PATENT-CLASS-357-55				US-PATENT-4,264,940				US-PATENT-APPL-SN-678813
				US-PATENT-CLASS-357-60				NASA-CASE-NPO-14521-1				US-PATENT-APPL-SN-830272
				US-PATENT-CLASS-357-91		N81-27519*	c 37	US-PATENT-APPL-SN-023439				US-PATENT-CLASS-350-96.25
				US-PATENT-4,272,302				US-PATENT-CLASS-244-161				US-PATENT-CLASS-365-120
N81-26402*	c 34			NASA-CASE-KSC-11076-1				US-PATENT-CLASS-294-86R				US-PATENT-4,154,501
				US-PATENT-APPL-SN-051274				US-PATENT-CLASS-318-640		N81-29407*	c 35	NASA-CASE-LAR-12308-1
				US-PATENT-CLASS-364-510				US-PATENT-CLASS-356-152				US-PATENT-APPL-SN-111438
				US-PATENT-CLASS-364-571				US-PATENT-CLASS-414-730				US-PATENT-CLASS-73-683.31
				US-PATENT-CLASS-73-861				US-PATENT-4,260,187				US-PATENT-CLASS-73-684.52
				US-PATENT-4,253,156		N81-27615* #	c 44	NASA-CASE-LEW-13556-1				US-PATENT-4,274,285
N81-26431*	c 35			NASA-CASE-FRC-10112-1				US-PATENT-APPL-SN-272233		N81-29524*	c 44	NASA-CASE-LEW-13148-2
				US-PATENT-APPL-SN-122965		N81-27783*	c 52	NASA-CASE-NPO-14402-1				US-PATENT-APPL-SN-061555
				US-PATENT-CLASS-219-209				US-PATENT-APPL-SN-855364				US-PATENT-APPL-SN-964754
				US-PATENT-CLASS-219-210				US-PATENT-CLASS-128-665				US-PATENT-CLASS-204-2.1
				US-PATENT-CLASS-219-510				US-PATENT-CLASS-356-406				US-PATENT-4,192,910
				US-PATENT-CLASS-236-1F				US-PATENT-CLASS-356-407				US-PATENT-4,270,984
				US-PATENT-CLASS-361-334				US-PATENT-CLASS-356-416		N81-29525*	c 44	NASA-CASE-NPO-13689-2
				US-PATENT-CLASS-73-361				US-PATENT-4,170,987				US-PATENT-APPL-SN-093714
				US-PATENT-4,264,802		N81-27806*	c 54	NASA-CASE-LAR-12320-1				US-PATENT-APPL-SN-597430
N81-26447*	c 37			NASA-CASE-LEW-12119-2				US-PATENT-APPL-SN-043913				US-PATENT-APPL-SN-683073
				US-PATENT-APPL-SN-102004				US-PATENT-CLASS-434-59				US-PATENT-APPL-SN-837513
				US-PATENT-APPL-SN-672219				US-PATENT-4,264,310				US-PATENT-CLASS-136-255
				US-PATENT-CLASS-277-153		N81-27814*	c 60	NASA-CASE-NPO-14554-1				US-PATENT-CLASS-136-258
				US-PATENT-CLASS-277-193				US-PATENT-APPL-SN-974473				US-PATENT-CLASS-136-262
				US-PATENT-4,212,477				US-PATENT-CLASS-364-200				US-PATENT-CLASS-357-15
				US-PATENT-4,266,788				US-PATENT-CLASS-364-900				US-PATENT-CLASS-357-30
N81-26509*	c 43			NASA-CASE-NPO-14140-1				US-PATENT-CLASS-370-58				US-PATENT-4,278,830
				NASA-CASE-NPO-14387-1				US-PATENT-4,264,984		N81-29763*	c 52	NASA-CASE-ARC-11031-1
				US-PATENT-APPL-SN-897832		N81-28698*	c 51	NASA-CASE-LAR-12520-1				US-PATENT-APPL-SN-897828
				US-PATENT-CLASS-134-17				US-PATENT-APPL-SN-067596				US-PATENT-CLASS-128-275
				US-PATENT-CLASS-166-222				US-PATENT-CLASS-204-1T				US-PATENT-CLASS-128-760
				US-PATENT-CLASS-166-77				US-PATENT-CLASS-204-195B				US-PATENT-4,190,060
				US-PATENT-CLASS-239-562				US-PATENT-CLASS-435-291		N81-29764*	c 52	NASA-CASE-ARC-11118-1
				US-PATENT-CLASS-239-591				US-PATENT-CLASS-435-34				US-PATENT-APPL-SN-850504
				US-PATENT-CLASS-299-13				US-PATENT-CLASS-435-5				US-PATENT-CLASS-424-247
				US-PATENT-CLASS-299-17				US-PATENT-4,264,728				US-PATENT-CLASS-424-267
				US-PATENT-CLASS-299-20		N81-28740*	c 52	NASA-CASE-MSC-18381-1				US-PATENT-CLASS-424-274
				US-PATENT-4,226,475				US-PATENT-APPL-SN-034531				US-PATENT-4,279,906
N81-26718*	c 54			NASA-CASE-MFS-23696-1				US-PATENT-CLASS-128-295		N81-29963*	c 74	NASA-CASE-NPO-14448-1
				US-PATENT-APPL-SN-945044				US-PATENT-CLASS-4-144.3				US-PATENT-APPL-SN-037560
				US-PATENT-CLASS-294-93				US-PATENT-4,270,539				US-PATENT-CLASS-356-345
				US-PATENT-CLASS-414-4				NASA-CASE-LEW-12990-1				US-PATENT-CLASS-356-346
				US-PATENT-CLASS-414-735		N81-29129*	c 07	US-PATENT-APPL-SN-916654				US-PATENT-4,278,351
				US-PATENT-CLASS-414-744A				US-PATENT-CLASS-261-28		N81-32510*	c 37	NASA-CASE-MSC-16239-1
				US-PATENT-4,273,505				US-PATENT-CLASS-431-2				US-PATENT-APPL-SN-847276
N81-27271*	c 27			NASA-CASE-ARC-11176-2				US-PATENT-CLASS-60-39.06				US-PATENT-CLASS-91-325
				US-PATENT-APPL-SN-129798				US-PATENT-CLASS-60-726				US-PATENT-CLASS-91-341R
				US-PATENT-CLASS-528-168				US-PATENT-CLASS-60-737				US-PATENT-CLASS-91-410
				US-PATENT-CLASS-528-399				US-PATENT-4,189,914				US-PATENT-4,283,995
				US-PATENT-CLASS-528-4		N81-29152*	c 18	NASA-CASE-LAR-12052-1		N81-32829*	c 51	NASA-CASE-MFS-23825-1

				US-PATENT-APPL-SN-145273				US-PATENT-CLASS-528-351				US-PATENT-CLASS-250-235
				US-PATENT-CLASS-119-17				US-PATENT-CLASS-528-353				US-PATENT-CLASS-250-236
				US-PATENT-CLASS-119-18				US-PATENT-4,284,461				US-PATENT-CLASS-358-109
				US-PATENT-4,284,034	N82-11336*	c 32		NASA-CASE-MSC-18606-1				US-PATENT-4,300,159
N81-33235*	c 24			NASA-CASE-LAR-12065-2				US-PATENT-APPL-SN-145206	N82-15381*	c 35		NASA-CASE-NPO-14839-1
				US-PATENT-APPL-SN-119337				US-PATENT-CLASS-343-700MS				US-PATENT-APPL-SN-106119
				US-PATENT-APPL-SN-889671				US-PATENT-CLASS-343-708				US-PATENT-CLASS-343-100PE
				US-PATENT-CLASS-156-242				US-PATENT-CLASS-343-727				US-PATENT-CLASS-455-137
				US-PATENT-CLASS-156-245				US-PATENT-CLASS-343-795				US-PATENT-CLASS-455-139
				US-PATENT-CLASS-156-252				US-PATENT-CLASS-343-846				US-PATENT-CLASS-455-60
				US-PATENT-CLASS-156-264				US-PATENT-4,287,518				US-PATENT-4,295,140
				US-PATENT-CLASS-156-285	N82-11357*	c 33		NASA-CASE-MSC-18106-1	N82-16059*	c 04		NASA-CASE-ARC-10990-1
				US-PATENT-CLASS-156-290				US-PATENT-APPL-SN-098568				US-PATENT-APPL-SN-749420
				US-PATENT-4,229,473				US-PATENT-CLASS-335-256				US-PATENT-CLASS-244-114R
				US-PATENT-4,274,901				US-PATENT-CLASS-335-266				US-PATENT-CLASS-340-26
N81-33246*	c 25			NASA-CASE-NPO-14272-1				US-PATENT-4,295,111	N82-16075*	c 06		NASA-CASE-FRC-11005-1
				US-PATENT-APPL-SN-878253				NASA-CASE-MFS-25586-1				US-PATENT-APPL-SN-043942
				US-PATENT-CLASS-201-17	N82-11360* #	c 33		US-PATENT-APPL-SN-310714				US-PATENT-CLASS-340-27NA
				US-PATENT-CLASS-44-1R				NASA-CASE-LEW-12950-1				US-PATENT-CLASS-73-178R
				US-PATENT-CLASS-44-2	N82-11399* #	c 34		US-PATENT-APPL-SN-202228				US-PATENT-4,283,705
				US-PATENT-4,146,367				NASA-CASE-LAR-12552-1	N82-16174*	c 23		NASA-CASE-ARC-11244-1
N81-33319*	c 31			NASA-CASE-NPO-14596-1	N82-11431*	c 35		US-PATENT-APPL-SN-070366				US-PATENT-APPL-SN-054501
				US-PATENT-APPL-SN-037072				US-PATENT-CLASS-235-92PC				US-PATENT-CLASS-260-340.9R
				US-PATENT-CLASS-264-24				US-PATENT-CLASS-324-71CP				US-PATENT-CLASS-568-445
				US-PATENT-CLASS-264-5				US-PATENT-4,286,209				US-PATENT-CLASS-568-497
				US-PATENT-CLASS-264-9	N82-11432*	c 35		NASA-CASE-MFS-23250-1				US-PATENT-4,277,402
				US-PATENT-CLASS-425-6				US-PATENT-APPL-SN-119340	N82-16238*	c 27		NASA-CASE-MSC-18382-1
				US-PATENT-CLASS-65-142				US-PATENT-CLASS-422-40				US-PATENT-APPL-SN-145107
				US-PATENT-CLASS-65-21.4				US-PATENT-CLASS-430-17				US-PATENT-CLASS-106-18.16
				US-PATENT-CLASS-65-22				US-PATENT-CLASS-430-372				US-PATENT-CLASS-106-18.24
				US-PATENT-4,279,632				US-PATENT-4,287,152				US-PATENT-CLASS-260-45.7R
N81-33403*	c 33			NASA-CASE-GSC-12324-1	N82-11469* #	c 37		NASA-CASE-NPO-15539-1				US-PATENT-CLASS-427-393.3
				US-PATENT-APPL-SN-945043				US-PATENT-APPL-SN-303670				US-PATENT-CLASS-428-263
				US-PATENT-CLASS-358-109	N82-11634*	c 45		NASA-CASE-NPO-13877-1				US-PATENT-CLASS-428-264
				US-PATENT-CLASS-358-213				US-PATENT-APPL-SN-652979				US-PATENT-CLASS-428-265
				US-PATENT-4,280,141				US-PATENT-CLASS-210-40				US-PATENT-CLASS-428-267
N81-33404*	c 33			NASA-CASE-NPO-14316-1				US-PATENT-CLASS-252-422				US-PATENT-CLASS-428-272
				US-PATENT-APPL-SN-051276				US-PATENT-4,209,393				US-PATENT-4,284,682
				US-PATENT-CLASS-363-24	N82-11770*	c 52		NASA-CASE-MSC-14836-1	N82-16340*	c 33		NASA-CASE-GSC-12420-1
				US-PATENT-CLASS-363-56				US-PATENT-APPL-SN-691647				US-PATENT-APPL-SN-129793
				US-PATENT-4,276,588				US-PATENT-CLASS-128-327				US-PATENT-CLASS-333-104
N81-33405*	c 33			NASA-CASE-NPO-14435-1				US-PATENT-CLASS-128-686				US-PATENT-CLASS-333-246
				US-PATENT-APPL-SN-017886				US-PATENT-CLASS-128-691				US-PATENT-4,302,734
				US-PATENT-CLASS-329-122				US-PATENT-4,294,261	N82-16396*	c 36		NASA-CASE-GSC-12321-1
				US-PATENT-CLASS-331-DIG.2	N82-12166*	c 25		NASA-CASE-MSC-16497-1				US-PATENT-APPL-SN-102001
				US-PATENT-CLASS-364-514				US-PATENT-APPL-SN-041145				US-PATENT-CLASS-356-349
				US-PATENT-CLASS-375-1				US-PATENT-CLASS-204-1T				US-PATENT-CLASS-356-386
				US-PATENT-4,279,018				US-PATENT-CLASS-204-195S				US-PATENT-4,299,492
N81-33448*	c 35			NASA-CASE-NPO-14258-1				US-PATENT-CLASS-204-263	N82-16408*	c 37		NASA-CASE-MSC-18422-1
				US-PATENT-APPL-SN-853349				US-PATENT-CLASS-204-264				US-PATENT-APPL-SN-102593
				US-PATENT-APPL-SN-972252				US-PATENT-CLASS-204-266				US-PATENT-CLASS-244-113
				US-PATENT-CLASS-350-370				US-PATENT-CLASS-204-275				US-PATENT-CLASS-244-163
				US-PATENT-CLASS-356-350				US-PATENT-CLASS-204-276				US-PATENT-CLASS-244-217
				US-PATENT-CLASS-356-351				US-PATENT-CLASS-204-278				US-PATENT-CLASS-277-189
				US-PATENT-4,280,766				US-PATENT-CLASS-23-230PC				US-PATENT-CLASS-277-81R
N81-33482*	c 37			NASA-CASE-NPO-15227-1				US-PATENT-CLASS-23-232E				US-PATENT-CLASS-418-113
				US-PATENT-APPL-SN-163840				US-PATENT-CLASS-422-80				US-PATENT-CLASS-418-142
				US-PATENT-CLASS-118-50				US-PATENT-4,293,522				US-PATENT-4,290,612
				US-PATENT-CLASS-118-52	N82-12297*	c 32		NASA-CASE-NPO-14054-1	N82-16474*	c 44		NASA-CASE-MFS-23775-1
				US-PATENT-CLASS-269-21				US-PATENT-APPL-SN-969761				US-PATENT-APPL-SN-098569
				US-PATENT-CLASS-427-240				US-PATENT-CLASS-343-5CM				US-PATENT-CLASS-73-341
				US-PATENT-4,280,689				US-PATENT-4,292,634				US-PATENT-4,282,752
N81-33483*	c 37			NASA-CASE-FRC-11044-1	N82-12441*	c 37		NASA-CASE-MFS-25363-1	N82-16475*	c 44		NASA-CASE-NPO-15071-1
				US-PATENT-APPL-SN-135056				US-PATENT-APPL-SN-171933				US-PATENT-APPL-SN-150115
				US-PATENT-CLASS-318-663				US-PATENT-CLASS-118-423				US-PATENT-CLASS-126-438
				US-PATENT-CLASS-74-89				US-PATENT-CLASS-118-500				US-PATENT-CLASS-250-527
				US-PATENT-CLASS-92-130R				US-PATENT-CLASS-134-137				US-PATENT-CLASS-48-89
				US-PATENT-4,274,038				US-PATENT-4,286,542				US-PATENT-CLASS-48-99
N82-11088*	c 09			NASA-CASE-LAR-12532-1	N82-12442*	c 37		NASA-CASE-LEW-12989-1				US-PATENT-4,290,779
				US-PATENT-APPL-SN-135040				US-PATENT-APPL-SN-092145	N82-16747*	c 60		NASA-CASE-GSC-12430-1
				US-PATENT-CLASS-118-52				US-PATENT-CLASS-277-27				US-PATENT-APPL-SN-129779
				US-PATENT-CLASS-269-21				US-PATENT-CLASS-277-40				US-PATENT-CLASS-370-100
				US-PATENT-CLASS-427-240				US-PATENT-CLASS-277-93R				US-PATENT-CLASS-375-106
				US-PATENT-4,280,689				US-PATENT-4,291,887				US-PATENT-CLASS-375-114
N81-33483*	c 37			NASA-CASE-FRC-11044-1	N82-12685*	c 46		NASA-CASE-NPO-14544-1				US-PATENT-4,298,987
				US-PATENT-APPL-SN-135056				US-PATENT-APPL-SN-078612	N82-16800*	c 71		NASA-CASE-FRC-11062-1
				US-PATENT-CLASS-318-663				US-PATENT-CLASS-343-100ME				US-PATENT-APPL-SN-185869
				US-PATENT-CLASS-74-89				US-PATENT-CLASS-343-100PE				US-PATENT-CLASS-181-214
				US-PATENT-CLASS-92-130R				US-PATENT-CLASS-343-781P				US-PATENT-4,300,656
				US-PATENT-4,274,038				US-PATENT-4,282,525	N82-18314*	c 20		NASA-CASE-GSC-12194-2
N82-11088*	c 09			NASA-CASE-LAR-12532-1	N82-13376*	c 34		NASA-CASE-MFS-25139-1				US-PATENT-APPL-SN-819029
				US-PATENT-APPL-SN-135040				US-PATENT-CLASS-239-499				US-PATENT-APPL-SN-971474
				US-PATENT-CLASS-118-52				US-PATENT-CLASS-239-589				US-PATENT-CLASS-60-200R
				US-PATENT-CLASS-269-21				US-PATENT-CLASS-239-601				US-PATENT-CLASS-60-39.46M
				US-PATENT-CLASS-427-240				US-PATENT-4,300,723				US-PATENT-4,288,982
				US-PATENT-4,280,689	N82-13415*	c 36		NASA-CASE-LAR-12592-1	N82-18389*	c 27		NASA-CASE-ARC-11176-1
N82-11144*	c 25			NASA-CASE-NPO-14273-1				US-PATENT-APPL-SN-041141				US-PATENT-APPL-SN-129799
				US-PATENT-APPL-SN-969759				US-PATENT-CLASS-331-94.5C				US-PATENT-CLASS-528-168
				US-PATENT-CLASS-110-234				US-PATENT-CLASS-331-94.5D				US-PATENT-CLASS-528-399
				US-PATENT-CLASS-110-245				US-PATENT-CLASS-331-94.5P				US-PATENT-CLASS-528-4
				US-PATENT-CLASS-110-255				US-PATENT-4,300,106				US-PATENT-CLASS-528-6
				US-PATENT-CLASS-110-266	N82-13465*	c 43		NASA-CASE-GSC-12032-2				US-PATENT-CLASS-528-7
				US-PATENT-CLASS-122-4D				US-PATENT-APPL-SN-578700				US-PATENT-CLASS-568-2
				US-PATENT-CLASS-122-4D				US-PATENT-APPL-SN-583219				US-PATENT-CLASS-568-4
				US-PATENT-4,287,838								
N82-11206*	c 27			NASA-CASE-LAR-12640-1								
				US-PATENT-APPL-SN-092142								
				US-PATENT-CLASS-156-307.7								
				US-PATENT-CLASS-156-307.3								
				US-PATENT-CLASS-156-307.5								
				US-PATENT-CLASS-156-331.5								
				US-PATENT-CLASS-528-126								
				US-PATENT-CLASS-528-172								
				US-PATENT-CLASS-528-173								
				US-PATENT-CLASS-528-180								
				US-PATENT-CLASS-528-207								
				US-PATENT-CLASS-528-208								
				US-PATENT-CLASS-528-210								
				US-PATENT-CLASS-528-211								
				US-PATENT-CLASS-528-225								
				US-PATENT-CLASS-528-228								

		US-PATENT-CLASS-568-5 US-PATENT-4,288,585				US-PATENT-CLASS-244-190 US-PATENT-CLASS-318-580 US-PATENT-4,326,685				US-PATENT-CLASS-428-466 US-PATENT-CLASS-428-493 US-PATENT-4,327,150
N82-18401*	c 28	NASA-CASE-ARC-11245-1 US-PATENT-APPL-SN-088663 US-PATENT-CLASS-239-690 US-PATENT-CLASS-361-226 US-PATENT-CLASS-361-230 US-PATENT-4,303,961	N82-23254*	c 09	NASA-CASE-LAR-12441-1 US-PATENT-APPL-SN-145210 US-PATENT-CLASS-73-147 US-PATENT-4,327,581	N82-24415*	c 33	NASA-CASE-LEW-13282-1 US-PATENT-APPL-SN-073579 US-PATENT-CLASS-315-3.6 US-PATENT-CLASS-315-5.38 US-PATENT-4,277,721		
N82-18443*	c 32	NASA-CASE-NPO-14632-1 US-PATENT-APPL-SN-092143 US-PATENT-CLASS-367-100 US-PATENT-CLASS-367-102 US-PATENT-CLASS-367-88 US-PATENT-4,287,578	N82-23282*	c 25	NASA-CASE-NPO-14542-1 US-PATENT-APPL-SN-030831 US-PATENT-CLASS-166-267 US-PATENT-CLASS-166-303 US-PATENT-CLASS-208-241 US-PATENT-4,310,049	N82-24416*	c 33	NASA-CASE-LAR-12633-1 US-PATENT-APPL-SN-135039 US-PATENT-CLASS-358-213 US-PATENT-4,279,001		
N82-18493*	c 33	NASA-CASE-FRC-11041-1 US-PATENT-APPL-SN-126064 US-PATENT-CLASS-318-561 US-PATENT-CLASS-318-620 US-PATENT-CLASS-318-621 US-PATENT-CLASS-318-622 US-PATENT-4,298,833	N82-23376*	c 32	NASA-CASE-NPO-14361-1 US-PATENT-APPL-SN-053572 US-PATENT-CLASS-343-17.1PF US-PATENT-CLASS-343-50P US-PATENT-CLASS-343-7.5 US-PATENT-CLASS-356-5 US-PATENT-CLASS-367-95 US-PATENT-4,320,397	N82-24417*	c 33	NASA-CASE-FRC-11025-1 US-PATENT-APPL-SN-115536 US-PATENT-CLASS-328-167 US-PATENT-CLASS-330-109 US-PATENT-CLASS-330-290 US-PATENT-CLASS-330-294 US-PATENT-CLASS-330-306 US-PATENT-CLASS-364-825 US-PATENT-4,275,453		
N82-18494*	c 33	NASA-CASE-FRC-11014-1 US-PATENT-APPL-SN-053652 US-PATENT-CLASS-331-113R US-PATENT-CLASS-363-132 US-PATENT-CLASS-363-17 US-PATENT-CLASS-363-61 US-PATENT-4,298,926	N82-24072*	c 74	NASA-CASE-NPO-14813-1 US-PATENT-APPL-SN-145282 US-PATENT-CLASS-250-216 US-PATENT-CLASS-250-235 US-PATENT-4,320,290	N82-24418*	c 33	NASA-CASE-NPO-14556-1 US-PATENT-APPL-SN-023485 US-PATENT-CLASS-307-415 US-PATENT-CLASS-328-67 US-PATENT-CLASS-331-94.5G US-PATENT-CLASS-331-94.5PE US-PATENT-CLASS-333-20 US-PATENT-4,275,317		
N82-18601*	c 37	NASA-CASE-LAR-12372-1 US-PATENT-APPL-SN-108107 US-PATENT-CLASS-188-371 US-PATENT-CLASS-244-110C US-PATENT-CLASS-280-805 US-PATENT-CLASS-57-906 US-PATENT-4,304,320	N82-24205*	c 08	NASA-CASE-LAR-12412-1 US-PATENT-APPL-SN-067595 US-PATENT-CLASS-244-213 US-PATENT-CLASS-244-226 US-PATENT-CLASS-244-78 US-PATENT-CLASS-74-479 US-PATENT-CLASS-74-480R US-PATENT-4,272,046	N82-24419*	c 33	NASA-CASE-GSC-12415-1 US-PATENT-APPL-SN-043943 US-PATENT-CLASS-165-32 US-PATENT-CLASS-62-383 US-PATENT-4,281,708		
N82-18686*	c 44	NASA-CASE-MFS-25287-1 US-PATENT-APPL-SN-098570 US-PATENT-CLASS-126-422 US-PATENT-CLASS-126-429 US-PATENT-CLASS-126-430 US-PATENT-4,304,219	N82-24212*	c 09	NASA-CASE-ARC-11158-1 US-PATENT-APPL-SN-053566 US-PATENT-CLASS-434-42 US-PATENT-CLASS-434-43 US-PATENT-4,313,726	N82-24420*	c 33	NASA-CASE-ARC-11116-1 US-PATENT-APPL-SN-069485 US-PATENT-CLASS-324-51 US-PATENT-CLASS-324-52 US-PATENT-4,282,479		
N82-19029*	c 74	NASA-CASE-NPO-15036-1 US-PATENT-APPL-SN-188160 US-PATENT-CLASS-455-610 US-PATENT-CLASS-455-612 US-PATENT-CLASS-455-615 US-PATENT-CLASS-455-617 US-PATENT-4,287,606	N82-24272*	c 15	NASA-CASE-ARC-11256-1 US-PATENT-APPL-SN-032305 US-PATENT-CLASS-102-504 US-PATENT-CLASS-242-128 US-PATENT-4,271,761	N82-24421*	c 33	NASA-CASE-GSC-12518-1 US-PATENT-APPL-SN-119336 US-PATENT-CLASS-310-12 US-PATENT-CLASS-318-135 US-PATENT-CLASS-335-229 US-PATENT-CLASS-335-266 US-PATENT-4,315,197		
N82-19540*	c 37	NASA-CASE-LEW-12131-3 US-PATENT-APPL-SN-096255 US-PATENT-APPL-SN-801290 US-PATENT-APPL-SN-931090 US-PATENT-CLASS-415-174 US-PATENT-CLASS-415-196 US-PATENT-4,135,851 US-PATENT-4,207,024 US-PATENT-4,295,786	N82-24296*	c 24	NASA-CASE-FRC-11026-1 US-PATENT-APPL-SN-043944 US-PATENT-CLASS-228-157 US-PATENT-CLASS-244-119 US-PATENT-CLASS-244-123 US-PATENT-CLASS-428-593 US-PATENT-CLASS-428-594 US-PATENT-CLASS-428-604 US-PATENT-4,292,375	N82-24422*	c 33	NASA-CASE-GSC-12595-1 US-PATENT-APPL-SN-206506 US-PATENT-CLASS-336-120 US-PATENT-CLASS-336-83 US-PATENT-4,321,572		
N82-21268*	c 25	NASA-CASE-LEW-12358-2 US-PATENT-APPL-SN-776146 US-PATENT-APPL-SN-848428 US-PATENT-CLASS-264-216 US-PATENT-CLASS-264-453 US-PATENT-CLASS-264-53 US-PATENT-CLASS-427-115 US-PATENT-CLASS-427-244 US-PATENT-CLASS-427-246 US-PATENT-4,133,941 US-PATENT-4,309,372	N82-24312*	c 25	NASA-CASE-ARC-11097-1 US-PATENT-APPL-SN-891872 US-PATENT-CLASS-260-386 US-PATENT-CLASS-260-389 US-PATENT-CLASS-528-402 US-PATENT-CLASS-570-123 US-PATENT-CLASS-570-129 US-PATENT-4,307,024	N82-24427* #	c 33	NASA-CASE-MSC-18407-1 US-PATENT-APPL-SN-293419		
N82-21269*	c 25	NASA-CASE-XLA-08914-2 US-PATENT-APPL-SN-662181 US-PATENT-APPL-SN-810576 US-PATENT-CLASS-210-321.1 US-PATENT-CLASS-55-158 US-PATENT-4,302,223	N82-24338*	c 27	NASA-CASE-ARC-11253-2 US-PATENT-APPL-SN-028301 US-PATENT-APPL-SN-145284 US-PATENT-CLASS-528-310 US-PATENT-CLASS-528-328 US-PATENT-CLASS-528-362 US-PATENT-CLASS-528-401 US-PATENT-CLASS-528-422 US-PATENT-4,273,918	N82-24470*	c 35	NASA-CASE-LAR-12321-1 US-PATENT-APPL-SN-178195 US-PATENT-CLASS-29-613 US-PATENT-CLASS-338-25 US-PATENT-CLASS-338-275 US-PATENT-CLASS-338-28 US-PATENT-4,317,102		
N82-21587*	c 37	NASA-CASE-NPO-14395-1 US-PATENT-APPL-SN-961833 US-PATENT-CLASS-104-83 US-PATENT-CLASS-105-1A US-PATENT-CLASS-105-171 US-PATENT-CLASS-105-180 US-PATENT-CLASS-105-218R US-PATENT-CLASS-248-425 US-PATENT-4,301,740	N82-24339*	c 27	NASA-CASE-ARC-11310-1 US-PATENT-APPL-SN-147700 US-PATENT-CLASS-102-289 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-158A US-PATENT-CLASS-244-160 US-PATENT-CLASS-428-192 US-PATENT-CLASS-428-193 US-PATENT-CLASS-428-241 US-PATENT-CLASS-428-242 US-PATENT-CLASS-428-245 US-PATENT-CLASS-428-251 US-PATENT-CLASS-428-257 US-PATENT-CLASS-428-260 US-PATENT-CLASS-428-266 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-448 US-PATENT-CLASS-428-49 US-PATENT-4,308,309	N82-24490*	c 37	NASA-CASE-LAR-12315-1 US-PATENT-APPL-SN-096257 US-PATENT-CLASS-220-378 US-PATENT-CLASS-277-1 US-PATENT-CLASS-277-105 US-PATENT-CLASS-277-2 US-PATENT-CLASS-277-204 US-PATENT-CLASS-277-4 US-PATENT-CLASS-277-59 US-PATENT-CLASS-277-72R US-PATENT-CLASS-285-37 US-PATENT-4,309,039		
N82-22496* #	c 37	NASA-CASE-ARC-11325-1 US-PATENT-APPL-SN-354126	N82-24340*	c 27	NASA-CASE-MFS-25181-1 US-PATENT-APPL-SN-218585 US-PATENT-CLASS-156-315 US-PATENT-CLASS-156-338 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-339 US-PATENT-CLASS-428-462	N82-24491*	c 37	NASA-CASE-MSC-18430-1 US-PATENT-APPL-SN-113015 US-PATENT-CLASS-156-84 US-PATENT-CLASS-156-85 US-PATENT-CLASS-156-86 US-PATENT-CLASS-264-230 US-PATENT-CLASS-264-342R US-PATENT-4,269,640		
N82-22875*	c 52	NASA-CASE-GSC-12081-2 US-PATENT-APPL-SN-672209 US-PATENT-APPL-SN-796258 US-PATENT-CLASS-128-1.2 US-PATENT-CLASS-128-778 US-PATENT-CLASS-33-143C US-PATENT-4,294,264				N82-24492*	c 37	NASA-CASE-ARC-11110-1 US-PATENT-APPL-SN-945040 US-PATENT-CLASS-118-320 US-PATENT-CLASS-118-500 US-PATENT-CLASS-118-503 US-PATENT-CLASS-118-505 US-PATENT-CLASS-427-425		
N82-23231*	c 04	NASA-CASE-FRC-11052-1 US-PATENT-APPL-SN-129783 US-PATENT-CLASS-244-168 US-PATENT-CLASS-244-175								

N82-24493*	c 37	US-PATENT-4,312,292	N82-26571*	c 33	US-PATENT-CLASS-340-347DD	N82-28442*	c 27	US-PATENT-APPL-SN-161254
		NASA-CASE-NPO-15115-1			US-PATENT-4,313,103			US-PATENT-CLASS-427-205
		US-PATENT-APPL-SN-154725			NASA-CASE-LAR-12595-1			US-PATENT-CLASS-427-253
		US-PATENT-CLASS-74-18.1			US-PATENT-APPL-SN-070774			US-PATENT-CLASS-427-405
		US-PATENT-CLASS-74-18.2			US-PATENT-CLASS-156-157			US-PATENT-CLASS-428-938
N82-24494*	c 37	US-PATENT-CLASS-92-37	N82-26572*	c 33	US-PATENT-CLASS-156-272	N82-28442*	c 27	US-PATENT-CLASS-428-941
		US-PATENT-4,311,057			US-PATENT-CLASS-156-379.7			US-PATENT-4,310,574
		NASA-CASE-MSC-18526-1			US-PATENT-CLASS-156-71			NASA-CASE-NPO-14845-1
		US-PATENT-APPL-SN-119335			US-PATENT-CLASS-219-10.41			US-PATENT-APPL-SN-219680
		US-PATENT-CLASS-285-159			US-PATENT-CLASS-219-10.53			US-PATENT-CLASS-264-5
N82-24639*	c 44	US-PATENT-CLASS-285-401	N82-26628*	c 35	US-PATENT-CLASS-219-545	N82-28545*	c 33	US-PATENT-CLASS-425-6
		US-PATENT-CLASS-285-89			US-PATENT-CLASS-428-247			US-PATENT-CLASS-65-142
		US-PATENT-CLASS-403-315			US-PATENT-4,313,777			US-PATENT-CLASS-65-21.4
		US-PATENT-4,320,911			NASA-CASE-LAR-12465-1			US-PATENT-CLASS-65-22
		NASA-CASE-MFS-23830-1			US-PATENT-APPL-SN-106136			US-PATENT-4,313,745
N82-24640*	c 44	US-PATENT-APPL-SN-129780	N82-26672*	c 37	US-PATENT-CLASS-361-283	N82-28604*	c 35	NASA-CASE-MFS-23776-1
		US-PATENT-CLASS-415-DIG.8			US-PATENT-CLASS-367-181			US-PATENT-APPL-SN-145272
		US-PATENT-CLASS-415-2R			US-PATENT-CLASS-73-724			US-PATENT-CLASS-250-214
		US-PATENT-4,309,146			US-PATENT-4,310,906			US-PATENT-CLASS-250-221
		NASA-CASE-LAR-12148-1			NASA-CASE-LAR-12474-1			US-PATENT-4,319,133
N82-24641*	c 44	US-PATENT-APPL-SN-051275	N82-26673* #	c 35	US-PATENT-APPL-SN-171934	N82-28616*	c 36	NASA-CASE-LAR-12709-1
		US-PATENT-CLASS-60-516			US-PATENT-CLASS-352-171			US-PATENT-APPL-SN-235796
		US-PATENT-CLASS-60-641.14			US-PATENT-CLASS-354-217			US-PATENT-CLASS-204-195B
		US-PATENT-4,326,381			US-PATENT-CLASS-354-289			US-PATENT-CLASS-435-291
		NASA-CASE-GSC-10019-1			US-PATENT-4,311,378			US-PATENT-CLASS-435-34
N82-24642*	c 44	US-PATENT-APPL-SN-680048	N82-26676* #	c 37	NASA-CASE-MFS-25707-1	N82-28780*	c 44	US-PATENT-CLASS-435-39
		US-PATENT-CLASS-136-6			US-PATENT-APPL-SN-359627			US-PATENT-4,335,206
		US-PATENT-3,498,841			NASA-CASE-MSC-18538-1			NASA-CASE-NPO-14782-1
		NASA-CASE-GSC-10350-1			US-PATENT-APPL-SN-138944			US-PATENT-APPL-SN-119339
		US-PATENT-APPL-SN-679980			US-PATENT-CLASS-30-102			US-PATENT-CLASS-330-4
N82-24643*	c 44	US-PATENT-CLASS-136-6	N82-26776*	c 44	US-PATENT-4,305,205	N82-29002*	c 54	US-PATENT-CLASS-372-56
		US-PATENT-3,498,840			NASA-CASE-MSC-18742-1			US-PATENT-CLASS-372-58
		NASA-CASE-GSC-10017-1			US-PATENT-APPL-SN-293417			US-PATENT-CLASS-372-82
		US-PATENT-APPL-SN-679996			NASA-CASE-LEW-13268-2			US-PATENT-4,328,464
		US-PATENT-CLASS-136-6			US-PATENT-APPL-SN-325931			NASA-CASE-NPO-13689-4
N82-24644*	c 44	US-PATENT-3,519,484	N82-26777*	c 44	NASA-CASE-NPO-15183-1	N82-29013*	c 60	US-PATENT-APPL-SN-225501
		NASA-CASE-GSC-10018-1			US-PATENT-APPL-SN-173519			US-PATENT-APPL-SN-597430
		US-PATENT-APPL-SN-679987			US-PATENT-CLASS-62-148			US-PATENT-APPL-SN-683073
		US-PATENT-CLASS-136-6			US-PATENT-CLASS-62-235.1			US-PATENT-APPL-SN-837513
		US-PATENT-3,519,483			US-PATENT-CLASS-62-238.3			US-PATENT-APPL-SN-93714
N82-24645*	c 44	NASA-CASE-GSC-10349-1	N82-26777* #	c 37	US-PATENT-CLASS-62-239	N82-29013*	c 60	US-PATENT-CLASS-148-175
		US-PATENT-APPL-SN-658999			US-PATENT-CLASS-62-244			US-PATENT-CLASS-29-572
		US-PATENT-CLASS-136-148			US-PATENT-CLASS-62-476			US-PATENT-CLASS-427-531
		US-PATENT-3,506,496			US-PATENT-4,307,575			US-PATENT-CLASS-427-74
		NASA-CASE-KSC-11099-1			NASA-CASE-NPO-15179-1			US-PATENT-4,278,830
N82-24779*	c 47	US-PATENT-APPL-SN-043945	N82-26777* #	c 37	US-PATENT-APPL-SN-185867	N82-29002*	c 54	US-PATENT-4,321,099
		US-PATENT-CLASS-324-72			US-PATENT-CLASS-136-261			NASA-CASE-XMS-03694-1
		US-PATENT-CLASS-324-77R			US-PATENT-CLASS-136-290			US-PATENT-APPL-SN-394280
		US-PATENT-4,272,720			US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-165-46
		NASA-CASE-FRC-11042-1			US-PATENT-CLASS-219-121LN			US-PATENT-3,295,594
N82-24839*	c 60	US-PATENT-APPL-SN-129778	N82-26987*	c 54	US-PATENT-CLASS-357-30	N82-29330*	c 09	NASA-CASE-MSC-18498-1
		US-PATENT-CLASS-254-131			US-PATENT-CLASS-357-63			US-PATENT-APPL-SN-173518
		US-PATENT-CLASS-29-267			US-PATENT-4,311,870			US-PATENT-CLASS-244-194
		US-PATENT-CLASS-29-764			NASA-CASE-ARC-11314-1			US-PATENT-CLASS-318-564
		US-PATENT-4,307,510			US-PATENT-APPL-SN-168943			US-PATENT-CLASS-371-68
N82-25484* #	c 35	US-PATENT-CLASS-73-862.08	N82-27086* #	c 71	US-PATENT-4,311,055	N82-29330*	c 09	US-PATENT-4,327,437
		NASA-CASE-NPO-15494-1			US-PATENT-4,311,055			NASA-CASE-KSC-11042-1
		US-PATENT-APPL-SN-325885			NASA-CASE-NPO-15562-1			US-PATENT-APPL-SN-154663
		NASA-CASE-FRC-11007-2			US-PATENT-APPL-SN-364097			US-PATENT-APPL-SN-862878
		US-PATENT-APPL-SN-043911			NASA-CASE-MSC-18532-1			US-PATENT-CLASS-53-429
N82-26277*	c 05	US-PATENT-CLASS-244-12.2	N82-27558*	c 32	US-PATENT-APPL-SN-172099	N82-29358*	c 23	US-PATENT-CLASS-8-150
		US-PATENT-CLASS-244-23C			US-PATENT-CLASS-343-789			US-PATENT-4,244,810
		US-PATENT-CLASS-244-34A			US-PATENT-CLASS-343-895			US-PATENT-4,313,291
		US-PATENT-CLASS-244-93			US-PATENT-4,315,266			NASA-CASE-LAR-10423-1
		US-PATENT-4,307,856			NASA-CASE-LAR-12175-1			US-PATENT-APPL-SN-877445
N82-26293*	c 07	US-PATENT-APPL-SN-025301	N82-28279*	c 05	US-PATENT-APPL-SN-079913	N82-29362*	c 24	US-PATENT-CLASS-260-65
		US-PATENT-CLASS-244-110B			US-PATENT-CLASS-244-48			US-PATENT-3,657,190
		US-PATENT-CLASS-60-226A			US-PATENT-4,330,100			NASA-CASE-MSC-18223-1
		US-PATENT-4,278,220			NASA-CASE-ARC-11267-2			US-PATENT-APPL-SN-219681
		NASA-CASE-LAR-11688-1			US-PATENT-APPL-SN-163838			US-PATENT-CLASS-128-280
N82-26384*	c 24	US-PATENT-CLASS-128-283	N82-28353*	c 23	US-PATENT-CLASS-528-401	N82-29370*	c 25	US-PATENT-CLASS-128-284
		US-PATENT-APPL-SN-878540			US-PATENT-CLASS-528-422			US-PATENT-CLASS-128-284
		US-PATENT-CLASS-244-119			US-PATENT-CLASS-547-131			US-PATENT-CLASS-128-285
		US-PATENT-CLASS-244-123			US-PATENT-CLASS-564-229			US-PATENT-CLASS-128-288
		US-PATENT-CLASS-244-132			US-PATENT-4,316,035			US-PATENT-CLASS-128-291
N82-26387* #	c 24	US-PATENT-CLASS-128-291	N82-28368*	c 25	NASA-CASE-NPO-15015-1	N82-29370*	c 25	US-PATENT-CLASS-128-296
		NASA-CASE-MSC-18934-3			US-PATENT-APPL-SN-145207			US-PATENT-CLASS-428-283
		US-PATENT-APPL-SN-361711			US-PATENT-CLASS-203-12			US-PATENT-CLASS-428-284
		NASA-CASE-LAR-12705-1			US-PATENT-CLASS-422-186			US-PATENT-CLASS-428-286
		US-PATENT-APPL-SN-135058			US-PATENT-CLASS-422-198			US-PATENT-CLASS-428-287
N82-26396*	c 25	US-PATENT-CLASS-428-287	N82-28440*	c 27	US-PATENT-CLASS-423-235	N82-29415*	c 26	US-PATENT-CLASS-428-288
		US-PATENT-CLASS-252-514			US-PATENT-CLASS-423-539			US-PATENT-4,338,371
		US-PATENT-4,311,615			US-PATENT-CLASS-423-540			NASA-CASE-XGS-05584-1
		NASA-CASE-LEW-12296-1			US-PATENT-CLASS-423-542			NASA-CASE-XGS-07375-1
		US-PATENT-APPL-SN-122966			US-PATENT-CLASS-423-579			NASA-CASE-XGS-07397-1
N82-26568*	c 33	US-PATENT-CLASS-315-3.5	N82-28440*	c 27	US-PATENT-CLASS-423-648R	N82-29371*	c 25	US-PATENT-APPL-SN-446071
		US-PATENT-CLASS-315-3.6			US-PATENT-4,314,984			US-PATENT-CLASS-106-197
		US-PATENT-CLASS-330-43			NASA-CASE-LEW-13120-1			US-PATENT-3,442,674
		US-PATENT-4,315,194			US-PATENT-APPL-SN-218587			NASA-CASE-NPO-14902-1
		NASA-CASE-MFS-23828-1			US-PATENT-CLASS-204-192E			US-PATENT-APPL-SN-156790
N82-26569*	c 33	US-PATENT-CLASS-318-254	N82-28441*	c 27	US-PATENT-CLASS-264-22	N82-29415*	c 26	US-PATENT-CLASS-201-17
		US-PATENT-CLASS-318-806			US-PATENT-CLASS-264-220			US-PATENT-CLASS-44-1SR
		US-PATENT-CLASS-318-812			US-PATENT-CLASS-428-141			US-PATENT-4,325,707
		US-PATENT-CLASS-318-830			US-PATENT-4,329,385			NASA-CASE-LEW-13169-1
		US-PATENT-4,313,077			NASA-CASE-LEW-13343-1			US-PATENT-APPL-SN-102003
N82-26570*	c 33	US-PATENT-APPL-SN-171928	N82-28441*	c 27		N82-29415*	c 26	US-P

N82-29451*	c 27	US-PATENT-4,336,117	N82-29863*	c 52	NASA-CASE-GSC-12560-1	N82-32732*	c 37	NASA-CASE-LAR-12482-1
		NASA-CASE-HQN-10274-1			US-PATENT-APPL-SN-153246			US-PATENT-APPL-SN-100611
		US-PATENT-APPL-SN-683465			US-PATENT-CLASS-128-421			US-PATENT-CLASS-403-217
N82-29452*	c 27	US-PATENT-CLASS-106-52	N82-30071*	c 74	US-PATENT-4,308,868	N82-32841*	c 44	US-PATENT-CLASS-403-317
		US-PATENT-3,573,078			NASA-CASE-MSC-18627-1			US-PATENT-CLASS-403-331
		NASA-CASE-HQN-10931-2			US-PATENT-APPL-SN-186881			US-PATENT-CLASS-403-340
N82-29453*	c 27	US-PATENT-APPL-SN-246295	N82-30105*	c 76	US-PATENT-CLASS-250-226	N82-33288*	c 85	US-PATENT-CLASS-52-81
		US-PATENT-APPL-SN-874674			US-PATENT-CLASS-250-231R			US-PATENT-4,340,318
		US-PATENT-CLASS-106-50			US-PATENT-CLASS-374-162R			NASA-CASE-LAR-12513-1
N82-29454*	c 27	US-PATENT-CLASS-106-52	N82-30371*	c 26	US-PATENT-4,338,516	N82-33520*	c 27	US-PATENT-APPL-SN-161256
		US-PATENT-3,785,836			NASA-CASE-NPO-14831-1			US-PATENT-CLASS-250-330
		NASA-CASE-LEW-13268-1			US-PATENT-APPL-SN-233269			US-PATENT-CLASS-250-370
N82-29455*	c 27	US-PATENT-APPL-SN-145209	N82-31505*	c 26	US-PATENT-CLASS-156-602	N82-33521*	c 27	US-PATENT-4,331,873
		US-PATENT-CLASS-415-174			US-PATENT-CLASS-156-608			NASA-CASE-FRC-11058-1
		US-PATENT-CLASS-427-34			US-PATENT-CLASS-422-246			US-PATENT-APPL-SN-175453
N82-29456*	c 27	US-PATENT-CLASS-427-423	N82-31583*	c 32	US-PATENT-4,330,359	N82-33523* #	c 27	US-PATENT-CLASS-105-2R
		US-PATENT-4,336,276			NASA-CASE-LEW-13169-2			US-PATENT-CLASS-244-53B
		NASA-CASE-HQN-10328-2			US-PATENT-APPL-SN-102003			US-PATENT-CLASS-296-1S
N82-29457*	c 27	US-PATENT-APPL-SN-246294	N82-31659*	c 35	US-PATENT-APPL-SN-191746	N82-33996*	c 52	US-PATENT-CLASS-296-24C
		US-PATENT-APPL-SN-874673			US-PATENT-CLASS-204-192C			US-PATENT-CLASS-296-91
		US-PATENT-CLASS-106-50			US-PATENT-CLASS-428-457			US-PATENT-4,343,506
N82-29458*	c 27	US-PATENT-CLASS-106-52	N82-31764*	c 44	US-PATENT-CLASS-428-472	N83-10040*	c 06	NASA-CASE-KSC-11097-1
		US-PATENT-CLASS-106-54			US-PATENT-4,341,843			US-PATENT-APPL-SN-172100
		US-PATENT-3,811,901			NASA-CASE-LEW-13339-1			US-PATENT-CLASS-427-140
N82-29459*	c 27	US-PATENT-3,811,901	N82-31765*	c 45	US-PATENT-APPL-SN-199769	N83-10117*	c 24	US-PATENT-CLASS-427-372.2
		NASA-CASE-HQN-10595-1			US-PATENT-CLASS-148-428			US-PATENT-CLASS-427-397.7
		US-PATENT-APPL-SN-259056			US-PATENT-CLASS-178-22.16			US-PATENT-4,330,572
N82-29460*	c 27	US-PATENT-APPL-SN-874675	N82-31766*	c 46	US-PATENT-CLASS-420-445	N83-10126*	c 25	NASA-CASE-LEW-13028-1
		US-PATENT-CLASS-106-50			US-PATENT-CLASS-420-551			US-PATENT-APPL-SN-218588
		US-PATENT-CLASS-106-52			US-PATENT-CLASS-420-588			US-PATENT-CLASS-204-192E
N82-29461*	c 27	US-PATENT-CLASS-106-54	N82-31767*	c 47	US-PATENT-4,340,425	N83-10170*	c 26	US-PATENT-CLASS-204-192EC
		US-PATENT-3,947,281			NASA-CASE-MSC-16462-1			US-PATENT-CLASS-204-38B
		NASA-CASE-MSC-18741-1			US-PATENT-APPL-SN-900841			US-PATENT-CLASS-428-141
N82-29462*	c 27	US-PATENT-APPL-SN-217336	N82-31768*	c 48	US-PATENT-CLASS-178-22.16	N83-10171*	c 25	US-PATENT-4,344,996
		US-PATENT-CLASS-156-329			US-PATENT-CLASS-178-22.17			NASA-CASE-ARC-14408-1
		US-PATENT-CLASS-244-121			US-PATENT-CLASS-364-717			US-PATENT-APPL-SN-403371
N82-29463*	c 27	US-PATENT-CLASS-244-158A	N82-31769*	c 49	US-PATENT-CLASS-375-106	N83-10172*	c 26	NASA-CASE-MFS-15670-1
		US-PATENT-CLASS-244-160			US-PATENT-4,341,925			US-PATENT-APPL-SN-409679
		US-PATENT-CLASS-244-163			NASA-CASE-LAR-12363-1			NASA-CASE-NPO-14549-2
N82-29464*	c 27	US-PATENT-CLASS-428-212	N82-31770*	c 50	US-PATENT-APPL-SN-191748	N83-10173*	c 27	US-PATENT-APPL-SN-145926
		US-PATENT-CLASS-428-218			US-PATENT-CLASS-250-332			US-PATENT-APPL-SN-918705
		US-PATENT-CLASS-428-283			US-PATENT-CLASS-250-370			US-PATENT-CLASS-128-422
N82-29465*	c 27	US-PATENT-CLASS-428-289	N82-31771*	c 51	US-PATENT-CLASS-29-576J	N83-10174*	c 28	US-PATENT-CLASS-128-784
		US-PATENT-CLASS-428-307.7			US-PATENT-CLASS-29-576S			US-PATENT-CLASS-128-804
		US-PATENT-CLASS-428-311.5			US-PATENT-CLASS-29-620			US-PATENT-CLASS-128-804
N82-29466*	c 27	US-PATENT-CLASS-428-312.6	N82-31772*	c 52	US-PATENT-4,341,012	N83-10175*	c 29	US-PATENT-4,346,715
		US-PATENT-CLASS-428-317.9			NASA-CASE-MSC-20304-1			NASA-CASE-NPO-15351-1
		US-PATENT-CLASS-428-325			US-PATENT-APPL-SN-393585			US-PATENT-APPL-SN-224231
N82-29467*	c 27	US-PATENT-CLASS-428-446	N82-31773*	c 53	US-PATENT-CLASS-178-22.17	N83-10176*	c 30	US-PATENT-CLASS-343-100ME
		US-PATENT-CLASS-428-449			NASA-CASE-LEW-13400-1			US-PATENT-CLASS-374-122
		US-PATENT-4,338,368			US-PATENT-APPL-SN-219677			US-PATENT-CLASS-374-123
N82-29468*	c 27	US-PATENT-CLASS-428-49	N82-31774*	c 54	US-PATENT-CLASS-136-249	N83-10177*	c 31	US-PATENT-CLASS-73-170R
		NASA-CASE-NPO-15066-1			US-PATENT-CLASS-357-30			US-PATENT-CLASS-73-178R
		US-PATENT-APPL-SN-191744			US-PATENT-4,341,918			US-PATENT-4,346,595
N82-29469*	c 27	US-PATENT-CLASS-179-18GF	N82-31775*	c 55	US-PATENT-CLASS-129-38.1	N83-10178*	c 32	NASA-CASE-LEW-12919-1
		US-PATENT-CLASS-340-825.89			US-PATENT-APPL-SN-060449			US-PATENT-APPL-SN-264378
		US-PATENT-CLASS-370-67			US-PATENT-CLASS-415-145			US-PATENT-CLASS-204-192E
N82-29470*	c 27	US-PATENT-4,331,956	N82-31776*	c 56	US-PATENT-CLASS-415-178	N83-10179*	c 33	US-PATENT-CLASS-313-106
		NASA-CASE-NPO-14311-1			US-PATENT-CLASS-60-39.07			US-PATENT-CLASS-313-107
		US-PATENT-APPL-SN-969762			US-PATENT-CLASS-60-39.29			US-PATENT-CLASS-315-5.38
N82-29471*	c 27	US-PATENT-CLASS-328-166	N82-31777*	c 57	US-PATENT-CLASS-60-726	N83-10180*	c 34	US-PATENT-4,349,424
		US-PATENT-CLASS-455-202			US-PATENT-4,329,114			NASA-CASE-MFS-25426-1
		US-PATENT-CLASS-455-208			NASA-CASE-LAR-12468-1			US-PATENT-APPL-SN-254575
N82-29472*	c 27	US-PATENT-CLASS-455-234	N82-31778*	c 58	US-PATENT-APPL-SN-135057	N83-10181*	c 35	US-PATENT-CLASS-204-299R
		US-PATENT-CLASS-455-306			US-PATENT-CLASS-244-118.1			US-PATENT-4,349,429
		US-PATENT-4,336,616			US-PATENT-CLASS-244-137R			NASA-CASE-LEW-12941-1
N82-29473*	c 27	NASA-CASE-NPO-15111-1	N82-31779*	c 59	US-PATENT-CLASS-89-1.5G	N83-10182*	c 36	US-PATENT-APPL-SN-210632
		US-PATENT-APPL-SN-150040			US-PATENT-4,343,447			US-PATENT-CLASS-29-458
		US-PATENT-CLASS-350-358			NASA-CASE-LAR-12620-1			US-PATENT-CLASS-29-521
N82-29474*	c 27	US-PATENT-4,332,441	N82-31780*	c 60	US-PATENT-APPL-SN-072857	N83-10183*	c 37	US-PATENT-CLASS-403-282
		NASA-CASE-LEW-13171-1			US-PATENT-CLASS-244-132			US-PATENT-4,349,954
		US-PATENT-APPL-SN-238790			US-PATENT-CLASS-244-158A			NASA-CASE-MFS-25208-1
N82-29475*	c 27	US-PATENT-CLASS-429-144	N82-31781*	c 61	US-PATENT-CLASS-428-594	N83-10184*	c 38	US-PATENT-APPL-SN-280154
		US-PATENT-CLASS-429-251			US-PATENT-CLASS-428-604			US-PATENT-CLASS-318-803
		US-PATENT-CLASS-429-254			US-PATENT-CLASS-428-607			US-PATENT-CLASS-363-87
N82-29476*	c 27	US-PATENT-4,331,746	N82-31782*	c 62	US-PATENT-CLASS-428-608	N83-10185*	c 39	US-PATENT-4,351,022
		NASA-CASE-LEW-13401-1			US-PATENT-4,344,591			NASA-CASE-NPO-15021-1
		US-PATENT-APPL-SN-219678			NASA-CASE-GSC-12587-1			US-PATENT-APPL-SN-130496
N82-29477*	c 27	US-PATENT-CLASS-136-249	N82-31783*	c 63	US-PATENT-APPL-SN-173524	N83-10186*	c 40	US-PATENT-CLASS-372-56
		US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-250-369			US-PATENT-CLASS-372-59
		US-PATENT-CLASS-29-572			US-PATENT-4,345,153			US-PATENT-CLASS-372-60
N82-29478*	c 27	US-PATENT-CLASS-357-30	N82-31784*	c 64	NASA-CASE-LAR-12328-1	N83-10187*	c 41	US-PATENT-4,347,613
		US-PATENT-4,335,503			US-PATENT-APPL-SN-073477			NASA-CASE-LEW-13131-1
		NASA-CASE-NPO-15269-1			US-PATENT-CLASS-350-453			US-PATENT-APPL-SN-246772
N82-29479*	c 27	US-PATENT-APPL-SN-220214	N82-31785*	c 65	US-PATENT-CLASS-356-28.5	N83-10188*	c 42	US-PATENT-CLASS-204-56R
		US-PATENT-CLASS-204-290F			US-PATENT-4,346,990			US-PATENT-4,350,574
		US-PATENT-CLASS-204-290R			NASA-CASE-GSC-12584-1			NASA-CASE-NPO-14369-1
N82-29480*	c 27	US-PATENT-CLASS-429-193	N82-31786*	c 66	US-PATENT-APPL-SN-182879	N83-10189*	c 43	US-PATENT-APPL-SN-126063
		US-PATENT-CLASS-429-33			US-PATENT-CLASS-125-23R			US-PATENT-CLASS-422-200
		US-PATENT-CLASS-429-40			US-PATENT-CLASS-225-103			US-PATENT-CLASS-422-202
N82-29481*	c 27	US-PATENT-4,331,742	N82-31787*	c 67	US-PATENT-4,343,287	N83-10190*	c 44	US-PATENT-CLASS-422-224
		NASA-CASE-LAR-12471-1			NASA-CASE-MFS-23846-1			US-PATENT-CLASS-55-204
		US-PATENT-APPL-SN-178193			US-PATENT-APPL-SN-168944			US-PATENT-4,343,772
N82-29482*	c 27	US-PATENT-CLASS-128-62A	N82-31788*	c 68	US-PATENT-CLASS-294-116	N83-10191*	c 45	NASA-CASE-GSC-12608-1
		US-PATENT-CLASS-433-118			US-PATENT-CLASS-414-222			US-PATENT-APPL-SN-195228
		US-PATENT-CLASS-433-125			US-PATENT-CLASS-414-226			US-PATENT-CLASS-350-170
N82-29483*	c 27	US-PATENT-CLASS-433-86	N82-31789*	c 69	US-PATENT-CLASS-414-739	N83-10192*	c 46	US-PATENT-CLASS-350-286
		US-PATENT-4,331,422			US-PATENT-4,343,584			

N83-13171*	c 24	US-PATENT-4,350,410	N83-18975*	c 32	US-PATENT-CLASS-428-920	N83-20996*	c 18	US-PATENT-CLASS-343-DIG2
		NASA-CASE-MSC-18737-1			US-PATENT-4,373,003			US-PATENT-4,377,266
		US-PATENT-APPL-SN-266256			NASA-CASE-NPO-14998-1			NASA-CASE-LEW-13269-1
		US-PATENT-CLASS-427-379			US-PATENT-APPL-SN-195547			US-PATENT-APPL-SN-242795
		US-PATENT-CLASS-427-384			US-PATENT-CLASS-250-203R			US-PATENT-CLASS-415-174
N83-13172*	c 24	US-PATENT-CLASS-427-387	N83-18996*	c 33	US-PATENT-CLASS-343-100CL	N83-21311*	c 35	US-PATENT-CLASS-415-197
		US-PATENT-CLASS-428-218			US-PATENT-CLASS-343-5CM			US-PATENT-4,377,371
		US-PATENT-4,358,486			US-PATENT-CLASS-364-822			NASA-CASE-LAR-12469-1
		NASA-CASE-MSC-18736-1			US-PATENT-CLASS-364-861			US-PATENT-APPL-SN-195223
		US-PATENT-APPL-SN-266254			US-PATENT-4,371,946			US-PATENT-CLASS-250-338
N83-13187*	c 25	US-PATENT-CLASS-244-158A	N83-19015*	c 34	NASA-CASE-NPO-14567-1	N83-21312*	c 35	US-PATENT-CLASS-250-372
		US-PATENT-CLASS-427-140			US-PATENT-APPL-SN-038550			US-PATENT-CLASS-250-474.1
		US-PATENT-CLASS-427-292			US-PATENT-APPL-SN-180230			US-PATENT-CLASS-356-51
		US-PATENT-CLASS-427-302			US-PATENT-CLASS-250-311			US-PATENT-4,372,680
		US-PATENT-CLASS-427-379			US-PATENT-CLASS-324-73R			NASA-CASE-MSC-18723-1
N83-13188*	c 25	US-PATENT-CLASS-427-384	N83-19091*	c 37	US-PATENT-CLASS-356-394	N83-21503*	c 44	US-PATENT-APPL-SN-234223
		US-PATENT-CLASS-427-387			US-PATENT-4,358,732			US-PATENT-CLASS-73-818
		US-PATENT-CLASS-428-63			NASA-CASE-MFS-25282-1			US-PATENT-4,377,089
		US-PATENT-4,358,480			US-PATENT-APPL-SN-263828			NASA-CASE-LAR-12458-1
		NASA-CASE-MFS-25306-1	N83-19596*	c 74	US-PATENT-CLASS-378-2	N83-21504*	c 44	US-PATENT-APPL-SN-274705
N83-13323*	c 32	US-PATENT-APPL-SN-309293			US-PATENT-CLASS-378-43			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-204-280R			US-PATENT-4,370,750			US-PATENT-4,372,158
		US-PATENT-CLASS-204-299R			NASA-CASE-LAR-12361-1	N83-21785*	c 52	NASA-CASE-LAR-12720-1
		US-PATENT-4,358,358			US-PATENT-APPL-SN-182880			US-PATENT-APPL-SN-274706
N83-13579*	c 44	NASA-CASE-LEW-13504-1	N83-19597*	c 74	US-PATENT-CLASS-411-353			US-PATENT-CLASS-73-147
		US-PATENT-APPL-SN-272234			US-PATENT-CLASS-411-517			US-PATENT-4,372,159
		US-PATENT-CLASS-264-104			US-PATENT-4,371,301	N83-21949*	c 74	NASA-CASE-LEW-13107-1
		US-PATENT-CLASS-429-206			NASA-CASE-LEW-12253-1			US-PATENT-APPL-SN-272407
		US-PATENT-CLASS-429-253			US-PATENT-APPL-SN-243682			US-PATENT-CLASS-604-280
N83-13978*	c 74	US-PATENT-CLASS-525-61	N83-19737*	c 05	US-PATENT-CLASS-165-104.26	N83-24572* #	c 25	US-PATENT-CLASS-604-8
		US-PATENT-4,357,402			US-PATENT-CLASS-165-134R			US-PATENT-4,377,169
		NASA-CASE-KSC-11025-1			US-PATENT-CLASS-29-157.3H	N83-24763*	c 33	NASA-CASE-ARC-11354-1
		US-PATENT-APPL-SN-061327			US-PATENT-4,372,377			US-PATENT-APPL-SN-282192
		US-PATENT-CLASS-371-6	N83-19900*	c 27	NASA-CASE-NPO-14864-1			US-PATENT-CLASS-356-357
N83-14692*	c 44	US-PATENT-4,358,846			US-PATENT-APPL-SN-061822	N83-24828*	c 35	US-PATENT-CLASS-73-147
		NASA-CASE-LEW-13620-1			US-PATENT-CLASS-250-227			US-PATENT-4,377,343
		US-PATENT-APPL-SN-242796			US-PATENT-CLASS-250-332	N83-25217*	c 45	NASA-CASE-NPO-16135-1
		US-PATENT-CLASS-136-256			US-PATENT-CLASS-250-340			US-PATENT-APPL-SN-470114
		US-PATENT-CLASS-136-259	N83-19947*	c 31	US-PATENT-CLASS-250-350			US-PATENT-CLASS-128-774
N83-14693*	c 44	US-PATENT-CLASS-29-572			US-PATENT-CLASS-250-351	N83-25346*	c 52	NASA-CASE-ARC-11261-1
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-350-353			US-PATENT-APPL-SN-282129
		US-PATENT-CLASS-427-88			US-PATENT-4,262,198			US-PATENT-CLASS-423-447.2
		US-PATENT-CLASS-427-89			NASA-CASE-FRC-11065-1	N83-25789*	c 24	US-PATENT-CLASS-423-447.6
		US-PATENT-CLASS-427-90	N83-19968*	c 32	US-PATENT-APPL-SN-248744			US-PATENT-CLASS-423-447.7
N83-14693*	c 44	US-PATENT-CLASS-427-91			US-PATENT-CASE-244-121	N83-26078*	c 37	US-PATENT-4,385,043
		US-PATENT-4,335,196			US-PATENT-CASE-244-129.4			NASA-CASE-GSC-12643-1
		NASA-CASE-ARC-11311-1			US-PATENT-CASE-292-254			US-PATENT-APPL-SN-238786
		US-PATENT-APPL-SN-219640			US-PATENT-4,375,281			US-PATENT-CLASS-417-15
		US-PATENT-CLASS-350-287	N83-20154* #	c 37	NASA-CASE-NPO-14857-1	N83-27058*	c 31	US-PATENT-CLASS-47-26
N83-14692*	c 44	US-PATENT-CLASS-350-486			US-PATENT-APPL-SN-158530			US-PATENT-4,381,174
		US-PATENT-4,355,870			US-PATENT-CLASS-523-205	N83-27085*	c 32	NASA-CASE-GSC-12636-1
		NASA-CASE-LEW-12892-1			US-PATENT-CLASS-524-436			US-PATENT-APPL-SN-173520
		US-PATENT-APPL-SN-264380			US-PATENT-CLASS-524-437			US-PATENT-CLASS-125-20
N83-14693*	c 44	US-PATENT-CLASS-136-255			US-PATENT-CLASS-524-503	N83-27126*	c 33	US-PATENT-CLASS-408-1R
		US-PATENT-CLASS-136-256	N83-19947*	c 31	US-PATENT-CLASS-524-564			US-PATENT-CLASS-408-61
		US-PATENT-CLASS-136-259			US-PATENT-CLASS-524-786			US-PATENT-CLASS-409-131
		US-PATENT-4,360,701			US-PATENT-4,373,039			US-PATENT-4,383,785
		NASA-CASE-MSC-18794-1	N83-20280*	c 39	NASA-CASE-NPO-15789-1	N83-27144*	c 34	NASA-CASE-NPO-15401-1
N83-16626*	c 33	US-PATENT-APPL-SN-238785			US-PATENT-APPL-SN-15789-1			US-PATENT-APPL-SN-259210
		US-PATENT-CLASS-417-399			US-PATENT-APPL-SN-322316			US-PATENT-CLASS-333-22F
		US-PATENT-CLASS-74-110			US-PATENT-CLASS-204-129.55			US-PATENT-CLASS-333-254
		US-PATENT-4,360,325			US-PATENT-CLASS-204-129.75			US-PATENT-4,382,239
N83-16633* #	c 33	US-PATENT-4,363,242			US-PATENT-4,375,396	N83-27126*	c 33	NASA-CASE-NPO-15358-1
		NASA-CASE-LAR-12772-1	N83-20789*	c 76	NASA-CASE-NPO-14035-1			US-PATENT-APPL-SN-219968
		US-PATENT-APPL-SN-198767			US-PATENT-APPL-SN-858767			US-PATENT-CLASS-323-269
		US-PATENT-CLASS-73-579			US-PATENT-CLASS-343-100CL			US-PATENT-CLASS-323-303
		US-PATENT-CLASS-73-597			US-PATENT-CLASS-343-5CM			US-PATENT-CLASS-323-350
N83-17045*	c 51	US-PATENT-CLASS-73-629			US-PATENT-CLASS-343-9PS	N83-27144*	c 34	US-PATENT-4,382,224
		US-PATENT-CLASS-73-761			US-PATENT-4,371,873			NASA-CASE-LEW-13174-1
		US-PATENT-4,363,242			NASA-CASE-MFS-25807			
		NASA-CASE-LAR-12847-1			US-PATENT-APPL-SN-460733			
		US-PATENT-APPL-SN-393456			NASA-CASE-MSC-18929-1			
N83-17235*	c 71	US-PATENT-CLASS-428-241	N83-20944*	c 07	US-PATENT-APPL-SN-198093	N83-27144*	c 34	NASA-CASE-LEW-13174-1
		NASA-CASE-NPO-15213-1			US-PATENT-CLASS-128-782			
		US-PATENT-APPL-SN-280153			US-PATENT-CLASS-358-105			
		US-PATENT-CLASS-47-58			US-PATENT-CLASS-364-413			
		US-PATENT-CLASS-71-98			US-PATENT-CLASS-364-522			
N83-17235*	c 71	US-PATENT-4,363,188			US-PATENT-CLASS-364-559			
		NASA-CASE-LAR-12883-1			US-PATENT-CLASS-73-379			
		US-PATENT-APPL-SN-267935			US-PATENT-4,375,674			
		US-PATENT-CLASS-73-147			NASA-CASE-NPO-15625-1			
		US-PATENT-4,363,237			US-PATENT-APPL-SN-325933			
N83-17305*	c 74	US-PATENT-CLASS-350-171			US-PATENT-CLASS-148-173			
		US-PATENT-4,362,361			US-PATENT-CLASS-148-175			
		NASA-CASE-MFS-25312-1			US-PATENT-CLASS-156-608			
		US-PATENT-APPL-SN-187106			US-PATENT-CLASS-156-624			
		US-PATENT-CLASS-350-171			US-PATENT-CLASS-156-635			
N83-17588* #	c 20	US-PATENT-CLASS-428-244			US-PATENT-CLASS-156-654			
		US-PATENT-CLASS-428-245			US-PATENT-CLASS-156-662			
		US-PATENT-CLASS-428-260			US-PATENT-4,373,989			
		US-PATENT-CLASS-428-331			NASA-CASE-MFS-23981-1			
		US-PATENT-CLASS-428-368			US-PATENT-APPL-SN-231543			
N83-18908*	c 27	US-PATENT-CLASS-428-902			US-PATENT-CLASS-244-159			
		US-PATENT-CLASS-428-913			US-PATENT-CLASS-244-173			
					US-PATENT-CLASS-322-2R			
					US-PATENT-CLASS-339-3R			
					US-PATENT-CLASS-339-5R			

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N83-32515*	c 71	US-PATENT-APPL-SN-258623	US-PATENT-CLASS-315-208	N83-35307*	c 34	US-PATENT-CLASS-318-806
		US-PATENT-CLASS-364-200	US-PATENT-CLASS-315-224			US-PATENT-4,401,934
		US-PATENT-CLASS-364-900	US-PATENT-CLASS-315-225			NASA-CASE-GSC-12812-1
		US-PATENT-4,394,726	US-PATENT-CLASS-315-237			US-PATENT-APPL-SN-434674
		NASA-CASE-NPO-15453-1	US-PATENT-CLASS-315-241R			US-PATENT-CLASS-165-104,26
N83-32516*	c 71	US-PATENT-APPL-SN-314929	US-PATENT-CLASS-372-25	N83-35338*	c 35	US-PATENT-4,402,358
		US-PATENT-CLASS-60-721	US-PATENT-4,398,129			NASA-CASE-LEW-13934-1
		US-PATENT-CLASS-73-505	NASA-CASE-MFS-25607-1			US-PATENT-APPL-SN-212949
		US-PATENT-4,393,708	US-PATENT-APPL-SN-325886			US-PATENT-CLASS-228-103
		US-PATENT-APPL-SN-303672	US-PATENT-CLASS-361-90			US-PATENT-CLASS-228-193
N83-32577*	c 74	US-PATENT-CLASS-60-721	US-PATENT-CLASS-318-729	N83-35350*	c 36	US-PATENT-CLASS-228-263.18
		US-PATENT-CLASS-73-505	US-PATENT-CLASS-318-798			US-PATENT-CLASS-415-118
		US-PATENT-4,393,706	US-PATENT-CLASS-318-806			US-PATENT-4,402,447
		NASA-CASE-GSC-12614-1	US-PATENT-CLASS-361-100			NASA-CASE-NPO-15501-1
		US-PATENT-APPL-SN-195227	US-PATENT-CLASS-363-54			US-PATENT-APPL-SN-246778
N83-33882*	c 06	US-PATENT-CLASS-356-353	US-PATENT-4,400,657	N83-35781*	c 71	US-PATENT-CLASS-330
		US-PATENT-CLASS-356-363	NASA-CASE-GSC-12646-1			US-PATENT-CLASS-332-7.5
		US-PATENT-4,395,123	US-PATENT-APPL-SN-284290			US-PATENT-CLASS-333-24.2
		NASA-CASE-FRC-11043-1	US-PATENT-CLASS-330-289			US-PATENT-4,399,415
		US-PATENT-APPL-SN-242790	US-PATENT-CLASS-330-310			NASA-CASE-NPO-15534-1
N83-33884*	c 07	US-PATENT-CLASS-33-322	US-PATENT-4,401,953	N83-35888*	c 76	US-PATENT-APPL-SN-341406
		US-PATENT-CLASS-74-5.34	NASA-CASE-LAR-12393-1			US-PATENT-CLASS-210-748
		US-PATENT-4,387,513	US-PATENT-APPL-SN-145208			US-PATENT-CLASS-252-361
		NASA-CASE-ARC-10812-1	US-PATENT-CLAS-165-27			US-PATENT-CLASS-366-114
		US-PATENT-APPL-SN-657903	US-PATENT-CLASS-165-12			US-PATENT-CLASS-55-15
N83-33950*	c 24	US-PATENT-CLASS-181-213	US-PATENT-CLASS-165-61	N83-35992*	c 01	US-PATENT-CLASS-55-277
		US-PATENT-CLASS-239-265.17	US-PATENT-CLASS-165-80E			US-PATENT-CLASS-55-38
		US-PATENT-CLASS-60-262	US-PATENT-CLASS-374-46			US-PATENT-CLASS-55-52
		US-PATENT-CLASS-60-269	US-PATENT-CLASS-62-514R			US-PATENT-CLASS-65-134
		US-PATENT-CLASS-60-271	US-PATENT-CLASS-62-62			US-PATENT-4,398,925
N83-33977*	c 25	US-PATENT-4,372,110	US-PATENT-4,346,754	N83-36029*	c 07	NASA-CASE-NPO-15530-1
		NASA-CASE-NPO-14987-1	NASA-CASE-ARC-11317-1			US-PATENT-APPL-SN-364092
		US-PATENT-APPL-SN-164-584	US-PATENT-APPL-SN-229231			US-PATENT-CLASS-156-DIG.6
		US-PATENT-CLASS-427-215	US-PATENT-CLASS-340-518			US-PATENT-CLASS-156-DIG.73
		US-PATENT-CLASS-427-241	US-PATENT-CLASS-340-566			US-PATENT-CLASS-156-608
N83-34039*	c 27	US-PATENT-CLASS-428-367	US-PATENT-4,374,378	N83-36118*	c 25	US-PATENT-4,401,505
		US-PATENT-CLASS-428-375	NASA-CASE-ARC-11312-1			NASA-CASE-LAR-12624-1
		US-PATENT-CLASS-428-392	US-PATENT-APPL-SN-234224			US-PATENT-APPL-SN-259209
		US-PATENT-CLASS-428-902	US-PATENT-CLASS-356-1			US-PATENT-CLASS-102-378
		US-PATENT-CLASS-428-903	US-PATENT-CLASS-356-4			US-PATENT-CLASS-244-137P
N83-34040*	c 27	US-PATENT-4, 359,503	US-PATENT-CLASS-358-104	N83-36220*	c 27	US-PATENT-CLASS-89-1B
		NASA-CASE-ARC-11326-1	US-PATENT-CLASS-358-109			US-PATENT-4,407,468
		US-PATENT-APPL-SN-178192	US-PATENT-CLASS-434-38			NASA-CASE-LEW-13142-1
		US-PATENT-CLASS-252-5	US-PATENT-CLASS-434-4			US-PATENT-APPL-SN-132364
		US-PATENT-CLASS-423-419P	US-PATENT-4,391,514			US-PATENT-CLASS-60-39.07
N83-34043*	c 27	US-PATENT-CLASS-423-600	NASA-CASE-GSC-12726-1	N83-36355*	c 33	US-PATENT-4,404,793
		US-PATENT-CLASS-424-156	US-PATENT-APPL-SN-364093			NASA-CASE-ARC-11252-1
		US-PATENT-4, 356,157	US-PATENT-CLASS-308-10			US-PATENT-APPL-SN-317977
		NASA-CASE-GSC-12686-1	US-PATENT-4,381,375			US-PATENT-CLASS-169-47
		US-PATENT-APPL-SN-293412	NASA-CASE-ARC-11164-1			US-PATENT-CLASS-252-2
N83-34047*	c 27	US-PATENT-CLASS-427-322	US-PATENT-APPL-SN-308007	N83-36356*	c 33	US-PATENT-CLASS-252-5
		US-PATENT-CLASS-427-340	US-PATENT-CLASS-350-166			US-PATENT-4,406,797
		US-PATENT-CLASS-427-352	US-PATENT-CLASS-428-312.6			NASA-CASE-MFS-25436-1
		US-PATENT-CLASS-427-400	US-PATENT-CLASS-428-325			US-PATENT-APPL-SN-280151
		US-PATENT-CLASS-427-407.1	US-PATENT-CLASS-428-427			US-PATENT-CLASS-156-DIG.73
N83-34073*	c 31	US-PATENT-4,362,769	US-PATENT-CLASS-428-228	N83-36357*	c 33	US-PATENT-CLASS-156-DIG.89
		NASA-CASE-LAR-12838-1	US-PATENT-4,381,333			US-PATENT-CLASS-156-600
		US-PATENT-APPL-SN-320621	NASA-CASE-LAR-12719-1			US-PATENT-CLASS-156-610
		US-PATENT-CLASS-526-259	US-PATENT-APPL-SN-367134			US-PATENT-CLASS-165-2
		US-PATENT-CLASS-526-285	US-PATENT-CLASS-126-901			US-PATENT-CLASS-165-58
N83-34077*	c 31	US-PATENT-CLASS-528-12	US-PATENT-CLASS-204-33	N83-36482*	c 37	US-PATENT-CLASS-219-343
		US-PATENT-CLASS-528-125	US-PATENT-CLASS-204-35N			US-PATENT-CLASS-219-354
		US-PATENT-CLASS-528-126	US-PATENT-4,397,716			US-PATENT-CLASS-219-390
		US-PATENT-CLASS-528-128	NASA-CASE-LEW-12582-1			US-PATENT-CLASS-219-411
		US-PATENT-CLASS-528-220	US-PATENT-APPL-SN-397281			US-PATENT-CLASS-350-316
N83-34081*	c 31	US-PATENT-CLASS-528-222	US-PATENT-CLASS-310-332	N83-36483*	c 37	US-PATENT-4,408,658
		US-PATENT-CLASS-528-228	US-PATENT-CLASS-310-800			NASA-CASE-GSC-12630-1
		US-PATENT-CLASS-528-229	US-PATENT-CLASS-428-294			US-PATENT-APPL-SN-308009
		US-PATENT-CLASS-528-38	US-PATENT-CLASS-428-421			US-PATENT-CLASS-343-100AP
		US-PATENT-4,375,536	US-PATENT-CLASS-428-422			US-PATENT-CLASS-343-840
N83-34084*	c 27	US-PATENT-4,398,021	US-PATENT-4,400,642	N83-36484*	c 71	US-PATENT-4,407,001
		NASA-CASE-LAR-12858-1	NASA-CASE-NPO-15070-1			NASA-CASE-KSC-11170-1
		US-PATENT-APPL-SN-407240	US-PATENT-APPL-SN-403847			US-PATENT-APPL-SN-284288
		US-PATENT-CLASS-164-331.12	US-PATENT-CLASS-264-12			US-PATENT-CLASS-330-110
		US-PATENT-CLASS-264-137	US-PATENT-CLASS-264-24			US-PATENT-CLASS-330-282
N83-34088*	c 31	US-PATENT-CLASS-264-258	US-PATENT-CLASS-264-5	N83-36527*	c 33	US-PATENT-4,406,989
		US-PATENT-CLASS-264-331.46	US-PATENT-CLASS-425-10			NASA-CASE-LAR-12654-1
		US-PATENT-CLASS-528-222	US-PATENT-CLASS-425-6			US-PATENT-APPL-SN-234225
		US-PATENT-CLASS-528-226	US-PATENT-CLASS-425-7			US-PATENT-CLASS-368-184
		US-PATENT-4,398,021	US-PATENT-CLASS-65-142			US-PATENT-CLASS-368-200
N83-34093*	c 27	NASA-CASE-NPO-15202-1	US-PATENT-CLASS-65-21.3	N83-36582*	c 37	US-PATENT-CLASS-368-201
		US-PATENT-APPL-SN-233271	US-PATENT-CLASS-65-21.4			US-PATENT-4,407,589
		US-PATENT-CLASS-384-124	US-PATENT-CLASS-65-22			NASA-CASE-MSC-18791-1
		US-PATENT-CLASS-523-440	US-PATENT-4,400,191			US-PATENT-APPL-SN-248746
		US-PATENT-CLASS-523-443	NASA-CASE-LEW-13450-1			US-PATENT-CLASS-29-446
N83-34097*	c 31	US-PATENT-4,395,503	US-PATENT-APPL-SN-328760	N83-36583*	c 37	US-PATENT-CLASS-73-862.54
		NASA-CASE-ARC-11246-1	US-PATENT-CLASS-427-243			US-PATENT-CLASS-81-55
		US-PATENT-APPL-SN-136660	US-PATENT-CLASS-427-247			US-PATENT-CLASS-81-57.38
		US-PATENT-CLASS-156-264	US-PATENT-CLASS-427-34			US-PATENT-4,407,165
		US-PATENT-CLASS-156-344	US-PATENT-CLASS-427-423			NASA-CASE-MSC-18807-1
N83-34101*	c 31	US-PATENT-CLASS-156-59	US-PATENT-4,402,992	N83-36584*	c 71	US-PATENT-APPL-SN-266688
		US-PATENT-CLASS-273-240	NASA-CASE-MFS-25209-1			US-PATENT-CLASS-123-197R
		US-PATENT-CLASS-434-403	US-PATENT-APPL-SN-291132			US-PATENT-CLASS-123-78E
		US-PATENT-CLASS-434-88	US-PATENT-CLASS-318-685			US-PATENT-4,406,256
		US-PATENT-4,385,949	US-PATENT-CLASS-318-798			NASA-CASE-NPO-15435-1
N83-34109*	c 33	NASA-CASE-GSC-12566-1	US-PATENT-CLASS-318-798	N83-36585*	c 71	US-PATENT-4,406,256
		US-PATENT-CLASS-318-798	US-PATENT-CLASS-318-798			US-PATENT-4,406,256
		US-PATENT-CLASS-318-798	US-PATENT-CLASS-318-798			US-PATENT-4,406,256
		US-PATENT-CLASS-318-798	US-PATENT-CLASS-318-798			US-PATENT-4,406,256
		US-PATENT-CLASS-318-798	US-PATENT-CLASS-318-798			US-PATENT-4,406,256

		US-PATENT-APPL-SN-272837		US-PATENT-APPL-SN-322314		US-PATENT-CLASS-339-258RR		
		US-PATENT-CLASS-308-10		US-PATENT-CLASS-156-215		US-PATENT-CLASS-339-262RR		
		US-PATENT-CLASS-73-505		US-PATENT-CLASS-156-230		US-PATENT-CLASS-339-64M		
		US-PATENT-4,402,221		US-PATENT-CLASS-156-235		US-PATENT-4,421,371		
N83-36898*	c 74	NASA-CASE-GSC-12683-1		US-PATENT-CLASS-156-294	N84-14424*	c 33	NASA-CASE-MFS-25477-1	
		US-PATENT-APPL-SN-333535		US-PATENT-CLASS-156-391			US-PATENT-APPL-SN-243683	
		US-PATENT-CLASS-350-173		US-PATENT-CLASS-156-423			US-PATENT-APPL-SN-297524	
		US-PATENT-CLASS-350-445		US-PATENT-CLASS-156-540			US-PATENT-APPL-SN-350472	
		US-PATENT-4,407,563		US-PATENT-CLASS-156-71			US-PATENT-CLASS-318-729	
N84-11136*	c 02	NASA-CASE-LAR-12843-1		US-PATENT-CLASS-338-2			US-PATENT-CLASS-318-798	
		US-PATENT-APPL-SN-392096		US-PATENT-4,407,686			US-PATENT-CLASS-318-806	
		US-PATENT-CLASS-244-35A	N84-12444*	c 35	NASA-CASE-LAR-12706-1		US-PATENT-4,417,190	
		US-PATENT-CLASS-244-35R			US-PATENT-APPL-SN-210498	N84-14461*	c 34	NASA-CASE-GSC-12771-1
		US-PATENT-CLASS-416-223R			US-PATENT-CLASS-324-250			US-PATENT-APPL-SN-434672
		US-PATENT-CLASS-416-242			US-PATENT-CLASS-328-230			US-PATENT-CLASS-165-32
		US-PATENT-4,412,664			US-PATENT-CLASS-372-74			US-PATENT-CLASS-165-41
N84-11213*	c 24	NASA-CASE-ARC-11418-1			US-PATENT-4,414,509			US-PATENT-CLASS-165-96
		US-PATENT-APPL-SN-452464	N84-12445*	c 35	NASA-CASE-LAR-12882-1			US-PATENT-4,420,035
		US-PATENT-CLASS-523-435			US-PATENT-APPL-SN-267179	N84-14491*	c 35	NASA-CASE-LAR-12686-1
		US-PATENT-CLASS-523-456			US-PATENT-CLASS-364-415			US-PATENT-APPL-SN-249304
		US-PATENT-CLASS-528-110			US-PATENT-CLASS-73-646			US-PATENT-CLASS-364-557
		US-PATENT-CLASS-528-361			US-PATENT-CLASS-73-658			US-PATENT-CLASS-364-558
		US-PATENT-4,410,682			US-PATENT-4,413,522			US-PATENT-CLASS-364-571
N84-11214*	c 24	NASA-CASE-LAR-12807-1	N84-12491*	c 37	NASA-CASE-GSC-12619-1			US-PATENT-CLASS-73-714
		US-PATENT-APPL-SN-280155			US-PATENT-APPL-SN-225499			US-PATENT-4,399,515
		US-PATENT-CLASS-228-157			US-PATENT-CLASS-101-407BP	N84-14509*	c 36	NASA-CASE-GSC-12565-1
		US-PATENT-CLASS-228-181			US-PATENT-CLASS-269-3			US-PATENT-APPL-SN-270763
		US-PATENT-CLASS-228-212			US-PATENT-4,393,777			US-PATENT-CLASS-350-299
		US-PATENT-CLASS-244-119	N84-12492*	c 37	NASA-CASE-GSC-12622-1			US-PATENT-CLASS-356-345
		US-PATENT-CLASS-244-123			US-PATENT-APPL-SN-243684			US-PATENT-CLASS-372-100
		US-PATENT-CLASS-428-593			US-PATENT-CLASS-308-2A			US-PATENT-CLASS-372-108
		US-PATENT-CLASS-52-806			US-PATENT-4,405,184			US-PATENT-CLASS-372-93
		US-PATENT-CLASS-52-808	N84-12493*	c 37	NASA-CASE-LAR-12923-1			US-PATENT-CLASS-372-94
		US-PATENT-4,411,380			US-PATENT-APPL-SN-383063			US-PATENT-CLASS-372-98
N84-11497*	c 37	NASA-CASE-MFS-25678-1			US-PATENT-CLASS-416-117			US-PATENT-4,420,836
		US-PATENT-APPL-SN-378533			US-PATENT-CLASS-416-132B	N84-14583*	c 44	NASA-CASE-NPO-15100-1
		US-PATENT-CLASS-277-116.6			US-PATENT-4,415,311			US-PATENT-APPL-SN-259211
		US-PATENT-CLASS-277-124	N84-12654*	c 45	NASA-CASE-NSTL-10			US-PATENT-CLASS-138-42
		US-PATENT-CLASS-277-164			US-PATENT-APPL-SN-335036			US-PATENT-CLASS-251-127
		US-PATENT-CLASS-277-177			US-PATENT-CLASS-210-151			US-PATENT-4,418,722
		US-PATENT-CLASS-277-190			US-PATENT-CLASS-210-602	N84-14873*	c 71	NASA-CASE-LAR-11903-2
		US-PATENT-4,410,189			US-PATENT-CLASS-210-605			US-PATENT-APPL-SN-238791
N84-11744*	c 52	NASA-CASE-MFS-25740-1			US-PATENT-CLASS-210-617			US-PATENT-APPL-SN-753971
		US-PATENT-APPL-SN-371352			US-PATENT-CLASS-47-58			US-PATENT-CLASS-239-265.17
		US-PATENT-CLASS-128-DIG.25			US-PATENT-4,415,450			US-PATENT-4,398,667
		US-PATENT-CLASS-128-1R	N84-12968* #	c 76	NASA-CASE-NPO-15811-1	N84-16231*	c 15	NASA-CASE-LAR-12751-1
		US-PATENT-CLASS-128-346			US-PATENT-APPL-SN-547175			US-PATENT-APPL-SN-338386
N84-11758*	c 54	US-PATENT-4,408,597	N84-14132*	c 04	NASA-CASE-LAR-12638-1			US-PATENT-CLASS-73-167
		NASA-CASE-MSC-18223-2			US-PATENT-APPL-SN-367187			US-PATENT-CLASS-73-432R
		US-PATENT-APPL-SN-219681			US-PATENT-CLASS-33-DIG.3			US-PATENT-CLASS-73-9
		US-PATENT-APPL-SN-368187			US-PATENT-CLASS-33-348			US-PATENT-4,425,785
		US-PATENT-CLASS-604-368			US-PATENT-CLASS-33-356	N84-16255*	c 23	NASA-CASE-NPO-15767-1
		US-PATENT-CLASS-604-378			US-PATENT-CLASS-33-378			US-PATENT-APPL-SN-315584
		US-PATENT-CLASS-604-396			US-PATENT-4,418,480			US-PATENT-CLASS-208-10
		US-PATENT-4,338,371	N84-14322*	c 27	NASA-CASE-ARC-11400-1			US-PATENT-CLASS-208-8LE
		US-PATENT-4,411,660			US-PATENT-APPL-SN-441899			US-PATENT-4,388,171
N84-11920*	c 74	NASA-CASE-GSC-12640-1			US-PATENT-CLASS-428-246	N84-16262*	c 24	NASA-CASE-MSC-16934-3
		US-PATENT-APPL-SN-267178			US-PATENT-CLASS-428-260			US-PATENT-APPL-SN-185868
		US-PATENT-CLASS-250-363R			US-PATENT-CLASS-428-367			US-PATENT-APPL-SN-361711
		US-PATENT-CLASS-250-363S			US-PATENT-CLASS-428-408			US-PATENT-APPL-SN-969757
		US-PATENT-CLASS-250-368			US-PATENT-CLASS-428-473.5			US-PATENT-CLASS-164-119
		US-PATENT-CLASS-378-2			US-PATENT-CLASS-428-902			US-PATENT-CLASS-264-118
		US-PATENT-4,404,469			US-PATENT-CLASS-428-920			US-PATENT-CLASS-264-59
N84-11921*	c 74	NASA-CASE-NPO-15375-1			US-PATENT-CLASS-524-494			US-PATENT-CLASS-264-60
		US-PATENT-APPL-SN-210405			US-PATENT-CLASS-524-496			US-PATENT-4,421,700
		US-PATENT-CLASS-250-227			US-PATENT-CLASS-524-500	N84-16276*	c 25	NASA-CASE-LEW-13426-1
		US-PATENT-CLASS-3-1.1			US-PATENT-CLASS-524-530			US-PATENT-APPL-SN-393588
		US-PATENT-CLASS-350-96.10			US-PATENT-CLASS-525-282			US-PATENT-CLASS-110-186
		US-PATENT-CLASS-350-96.15			US-PATENT-CLASS-525-287			US-PATENT-CLASS-110-262
		US-PATENT-CLASS-73-432T			US-PATENT-4,421,820			US-PATENT-CLASS-110-263
		US-PATENT-4,405,197	N84-14323*	c 27	NASA-CASE-LAR-12881-1			US-PATENT-CLASS-110-265
N84-12154*	c 05	NASA-CASE-LAR-12615-1			US-PATENT-APPL-SN-361215			US-PATENT-CLASS-431-1
		US-PATENT-APPL-SN-263829			US-PATENT-CLASS-206-447			US-PATENT-4,425,854
		US-PATENT-CLASS-244-13			US-PATENT-CLASS-206-582	N84-16452*	c 33	NASA-CASE-LEW-13570-1
		US-PATENT-CLASS-244-45R			US-PATENT-CLASS-428-202			US-PATENT-APPL-SN-251009
		US-PATENT-CLASS-244-53R			US-PATENT-CLASS-428-347			US-PATENT-CLASS-315-3.5
		US-PATENT-CLASS-244-55			US-PATENT-CLASS-428-408			US-PATENT-CLASS-315-3.6
		US-PATENT-CLASS-244-91			US-PATENT-CLASS-428-78			US-PATENT-CLASS-315-39.3
		US-PATENT-4,415,133			US-PATENT-4,420,518			US-PATENT-CLASS-333-162
N84-12193* #	c 09	NASA-CASE-ARC-11426-1	N84-14324*	c 27	NASA-CASE-MSC-18382-2			US-PATENT-4,422,012
		US-PATENT-APPL-SN-526741			US-PATENT-APPL-SN-241155	N84-16453*	c 33	NASA-CASE-MFS-25430-1
N84-12262*	c 25	NASA-CASE-NPO-15458-1			US-PATENT-CLASS-524-371			US-PATENT-APPL-SN-383083
		US-PATENT-APPL-SN-376306			US-PATENT-4,395,511			US-PATENT-CLASS-363-25
		US-PATENT-CLASS-204-DIG.3	N84-14421*	c 33	NASA-CASE-GSC-12650-1			US-PATENT-CLASS-363-65
		US-PATENT-CLASS-204-129			US-PATENT-APPL-SN-301077			US-PATENT-CLASS-363-67
		US-PATENT-CLASS-204-242			US-PATENT-CLASS-330-107			US-PATENT-CLASS-363-71
		US-PATENT-CLASS-204-278			US-PATENT-CLASS-330-109			US-PATENT-4,426,678
		US-PATENT-CLASS-204-290R			US-PATENT-4,417,215	N84-16454*	c 33	NASA-CASE-GSC-12645-1
		US-PATENT-CLASS-427-443.2	N84-14422*	c 33	NASA-CASE-LEW-13286-1			US-PATENT-APPL-SN-284314
		US-PATENT-CLASS-429-111			US-PATENT-APPL-SN-272406			US-PATENT-CLASS-324-79R
		US-PATENT-4,414,080			US-PATENT-CLASS-252-182.1			US-PATENT-CLASS-324-83A
N84-12406*	c 34	NASA-CASE-MFS-25631-1			US-PATENT-CLASS-429-206			US-PATENT-CLASS-324-83R
		US-PATENT-APPL-SN-308203			US-PATENT-CLASS-429-229			US-PATENT-CLASS-328-133
		US-PATENT-CLASS-239-426			US-PATENT-4,418,130			US-PATENT-CLASS-330-289
		US-PATENT-4,413,784	N84-14423*	c 33	NASA-CASE-MFS-25211-2			US-PATENT-4,425,543
N84-12443*	c 35	NASA-CASE-FRC-11068-1			US-PATENT-APPL-SN-432057	N84-16455*	c 33	NASA-CASE-MFS-25616-1

				US-PATENT-APPL-SN-325932				US-PATENT-CLASS-244-215				US-PATENT-APPL-SN-433598
				US-PATENT-CLASS-318-799				US-PATENT-CLASS-244-216				US-PATENT-CLASS-524-171
				US-PATENT-CLASS-323-243				US-PATENT-CLASS-244-219				US-PATENT-CLASS-525-534
				US-PATENT-CLASS-323-246				US-PATENT-4,444,368				US-PATENT-CLASS-525-535
				US-PATENT-4,426,614		N84-22559*	c 07	NASA-CASE-LEW-13622-1				US-PATENT-CLASS-525-536
N84-16456*	c 33			NASA-CASE-NPO-15161-1				US-PATENT-APPL-SN-350473				US-PATENT-CLASS-528-25
				US-PATENT-APPL-SN-325083				US-PATENT-CLASS-364-558				US-PATENT-CLASS-528-26
				US-PATENT-CLASS-427-216				US-PATENT-CLASS-73-115				US-PATENT-4,431,761
				US-PATENT-CLASS-427-217		N84-22560*	c 07	US-PATENT-4,428,226	N84-22748*	c 27		NASA-CASE-NPO-15640-1
				US-PATENT-CLASS-427-226				NASA-CASE-LEW-13654-1				US-PATENT-APPL-SN-465367
				US-PATENT-CLASS-427-376.6				US-PATENT-APPL-SN-245571				US-PATENT-CLASS-156-304.3
				US-PATENT-CLASS-427-376.7				US-PATENT-CLASS-416-224				US-PATENT-CLASS-156-304.6
				US-PATENT-CLASS-427-436				US-PATENT-CLASS-416-233				US-PATENT-CLASS-156-499
				US-PATENT-CLASS-427-437				US-PATENT-CLASS-416-92				US-PATENT-CLASS-156-81
				US-PATENT-CLASS-427-58				US-PATENT-CLASS-416-97R				US-PATENT-CLASS-156-89
				US-PATENT-CLASS-427-75				US-PATENT-4,411,597				US-PATENT-4,420,352
				US-PATENT-CLASS-427-88		N84-22601*	c 16	NASA-CASE-MSC-20254-1	N84-22749*	c 27		NASA-CASE-LAR-12980-1
				US-PATENT-CLASS-427-96				US-PATENT-APPL-SN-418137				US-PATENT-APPL-SN-469866
				US-PATENT-4,388,346				US-PATENT-CLASS-244-158A				US-PATENT-CLASS-528-125
N84-16523*	c 35			NASA-CASE-LAR-12007-3				US-PATENT-CLASS-52-404				US-PATENT-CLASS-528-128
				US-PATENT-APPL-SN-352831				US-PATENT-CLASS-52-506				US-PATENT-CLASS-528-172
				US-PATENT-CLASS-33-293				US-PATENT-4,439,968				US-PATENT-CLASS-528-185
				US-PATENT-4,428,122		N84-22605*	c 18	NASA-CASE-MSC-18969-1				US-PATENT-4,444,979
N84-16542*	c 36			NASA-CASE-LAR-12870-1				US-PATENT-APPL-SN-368189	N84-22750*	c 27		NASA-CASE-ARC-11370-1
				US-PATENT-APPL-SN-317658				US-PATENT-CLASS-244-161				US-PATENT-APPL-SN-491125
				US-PATENT-CLASS-372-55				US-PATENT-CLASS-403-322				US-PATENT-CLASS-525-389
				US-PATENT-CLASS-372-79				US-PATENT-4,431,333				US-PATENT-CLASS-528-394
				US-PATENT-4,424,592		N84-22609* #	c 18	NASA-CASE-MFS-15429-1				US-PATENT-CLASS-528-399
N84-16560*	c 37			NASA-CASE-MFS-25510-1				US-PATENT-APPL-SN-596959				US-PATENT-CLASS-528-6
				US-PATENT-APPL-SN-293414		N84-22610* #	c 18	NASA-CASE-MSC-20543-1				US-PATENT-CLASS-568-4
				US-PATENT-CLASS-248-228				US-PATENT-APPL-SN-580574				US-PATENT-CLASS-568-5
				US-PATENT-4,422,609		N84-22612* #	c 18	NASA-CASE-ARC-11505-1				US-PATENT-4,444,972
N84-16561*	c 37			NASA-CASE-LAR-12785-1				US-PATENT-APPL-SN-588036				NASA-CASE-MSC-18675-1
				US-PATENT-APPL-SN-297488		N84-22695*	c 24	NASA-CASE-LEW-13837-1	N84-22820*	c 32		US-PATENT-APPL-SN-266687
				US-PATENT-CLASS-239-568				US-PATENT-APPL-SN-495381				US-PATENT-CLASS-343-17.5
				US-PATENT-CLASS-241-95				US-PATENT-CLASS-204-192C				US-PATENT-CLASS-343-9R
				US-PATENT-CLASS-406-155				US-PATENT-CLASS-204-192R				US-PATENT-4,439,766
				US-PATENT-4,428,703				US-PATENT-CLASS-204-192SP				NASA-CASE-MFS-256704-1
N84-16803*	c 54			NASA-CASE-MSC-20202-1				US-PATENT-CLASS-423-DIG.10	N84-22884*	c 33		US-PATENT-APPL-SN-409679
				US-PATENT-APPL-SN-414106				US-PATENT-CLASS-423-414				US-PATENT-CLASS-204-192EC
				US-PATENT-CLASS-128-1A				US-PATENT-CLASS-423-445				US-PATENT-4,437,961
				US-PATENT-CLASS-128-15R				US-PATENT-CLASS-423-446	N84-22885*	c 33		NASA-CASE-MFS-25535-2
				US-PATENT-CLASS-128-38				US-PATENT-CLASS-423-449				US-PATENT-APPL-SN-476244
				US-PATENT-4,421,109		N84-22709*	c 25	US-PATENT-4,437,962				US-PATENT-CLASS-318-438
N84-16940*	c 71			NASA-CASE-NPO-15592-1				NASA-CASE-NPO-15210-1				US-PATENT-CLASS-318-729
				US-PATENT-APPL-SN-314702				US-PATENT-APPL-SN-322312				US-PATENT-CLASS-318-798
				US-PATENT-CLASS-118-300				US-PATENT-CLASS-208-10				US-PATENT-CLASS-318-805
				US-PATENT-CLASS-118-50				US-PATENT-CLASS-208-8LE				US-PATENT-CLASS-318-810
				US-PATENT-CLASS-118-50.1		N84-22734*	c 26	US-PATENT-4,443,321				US-PATENT-4,433,276
				US-PATENT-CLASS-118-500				NASA-CASE-LEW-13349-1	N84-22886*	c 33		NASA-CASE-MFS-25323-1
				US-PATENT-CLASS-118-57				US-PATENT-APPL-SN-350476				US-PATENT-APPL-SN-297524
				US-PATENT-CLASS-118-62				US-PATENT-CLASS-29-623.5				US-PATENT-CLASS-318-729
				US-PATENT-CLASS-427-346				US-PATENT-CLASS-427-115				US-PATENT-CLASS-318-812
				US-PATENT-CLASS-427-421				US-PATENT-CLASS-427-125				US-PATENT-4,439,718
				US-PATENT-CLASS-427-426				US-PATENT-CLASS-427-126.6	N84-22887*	c 33		NASA-CASE-GSC-12567-1
				US-PATENT-CLASS-427-57				US-PATENT-CLASS-427-296				US-PATENT-APPL-SN-373839
				US-PATENT-CLASS-427-6				US-PATENT-CLASS-427-306				US-PATENT-CLASS-330-109
				US-PATENT-CLASS-65-213				US-PATENT-CLASS-429-223				US-PATENT-CLASS-330-277
				US-PATENT-4,425,376				US-PATENT-CLASS-429-234				US-PATENT-CLASS-330-294
N84-16959* #	c 72			NASA-CASE-NPO-15547-1		N84-22744*	c 27	US-PATENT-4,439,465				US-PATENT-4,437,069
				US-PATENT-APPL-SN-276076				NASA-CASE-ARC-11402-1	N84-22903*	c 34		NASA-CASE-NPO-15465-1
N84-17555*	c 35			NASA-CASE-NPO-15426-1				US-PATENT-APPL-SN-366025				US-PATENT-APPL-SN-284289
				US-PATENT-APPL-SN-196877				US-PATENT-CLASS-260-465.5R				US-PATENT-CLASS-126-417
				US-PATENT-CLASS-210-748				US-PATENT-CLASS-260-465.6				US-PATENT-CLASS-165-DIG.6
				US-PATENT-CLASS-422-121				US-PATENT-CLASS-528-362				US-PATENT-CLASS-165-135
				US-PATENT-CLASS-422-169				US-PATENT-CLASS-528-401				US-PATENT-CLASS-62-DIG.1
				US-PATENT-CLASS-422-178				US-PATENT-CLASS-528-422				US-PATENT-CLASS-62-264
				US-PATENT-CLASS-422-186				US-PATENT-CLASS-528-423				US-PATENT-CLASS-62-467R
				US-PATENT-CLASS-55-DIG.25				US-PATENT-CLASS-544-215				US-PATENT-4,423,605
				US-PATENT-CLASS-55-DIG.30				US-PATENT-CLASS-564-243	N84-22928*	c 35		NASA-CASE-MFS-25687-1
				US-PATENT-CLASS-55-105				US-PATENT-4,434,106				US-PATENT-APPL-SN-350474
				US-PATENT-CLASS-55-12		N84-22745*	c 27	NASA-CASE-ARC-11368-3				US-PATENT-CLASS-324-262
				US-PATENT-CLASS-55-126				US-PATENT-APPL-SN-288267				US-PATENT-CLASS-73-620
				US-PATENT-CLASS-55-131				US-PATENT-APPL-SN-512795				US-PATENT-CLASS-73-633
				US-PATENT-CLASS-55-138				US-PATENT-CLASS-428-370				US-PATENT-CLASS-74-58
				US-PATENT-CLASS-55-139				US-PATENT-CLASS-428-408				US-PATENT-4,434,659
				US-PATENT-CLASS-55-145				US-PATENT-CLASS-428-902	N84-22929*	c 35		NASA-CASE-MFS-25405-1
				US-PATENT-CLASS-55-2				US-PATENT-CLASS-428-920				US-PATENT-APPL-SN-274708
				US-PATENT-CLASS-55-270				US-PATENT-CLASS-525-417				US-PATENT-CLASS-356-347
				US-PATENT-CLASS-55-283				US-PATENT-CLASS-526-262				US-PATENT-4,428,675
				US-PATENT-CLASS-55-291				US-PATENT-CLASS-528-228	N84-22930*	c 35		NASA-CASE-LEW-13598-1
				US-PATENT-CLASS-55-466				US-PATENT-CLASS-528-322				US-PATENT-APPL-SN-425203
				US-PATENT-CLASS-55-6				US-PATENT-CLASS-548-415				US-PATENT-CLASS-101-395
				US-PATENT-CLASS-55-96				US-PATENT-4,395,557				US-PATENT-CLASS-156-630
				US-PATENT-CLASS-60-275		N84-22746*	c 27	US-PATENT-4,433,115				US-PATENT-CLASS-156-654
				US-PATENT-CLASS-60-303				NASA-CASE-LAR-12723-2				US-PATENT-CLASS-156-905
				US-PATENT-CLASS-60-311				US-PATENT-APPL-SN-199768				US-PATENT-CLASS-228-165
				US-PATENT-4,376,637				US-PATENT-APPL-SN-447371				US-PATENT-4,437,923
N84-22546*	c 04			NASA-CASE-GSC-12508-1				US-PATENT-CLASS-525-426	N84-22931*	c 35		NASA-CASE-NPO-15398-1
				US-PATENT-APPL-SN-266253				US-PATENT-CLASS-528-183				US-PATENT-APPL-SN-259212
				US-PATENT-CLASS-343-356				US-PATENT-CLASS-528-220				US-PATENT-CLASS-356-216
				US-PATENT-CLASS-343-357				US-PATENT-CLASS-528-345				US-PATENT-CLASS-356-234
				US-PATENT-4,445,118				US-PATENT-CLASS-528-348				US-PATENT-4,431,306
N84-22551*	c 05			NASA-CASE-LAR-12541-1				US-PATENT-4,395,540	N84-22932*	c 35		NASA-CASE-LAR-12967-1
				US-PATENT-APPL-SN-315588				US-PATENT-4,431,792				US-PATENT-APPL-SN-414107
				US-PATENT-CLASS-244-212		N84-22747*	c 27	NASA-CASE-LAR-12931-1				

				US-PATENT-CLASS-310-317				US-PATENT-CLASS-350-443					US-PATENT-APPL-SN-450166
				US-PATENT-CLASS-310-334				US-PATENT-4,444,464					US-PATENT-CLASS-318-729
				US-PATENT-CLASS-310-366		N84-24577*	c 07	NASA-CASE-LEW-14035-1					US-PATENT-CLASS-318-809
				US-PATENT-4,446,396				US-PATENT-APPL-SN-136652					US-PATENT-CLASS-323-300
N84-22933*	c 35			NASA-CASE-LAR-12995-1				US-PATENT-CLASS-60-757					US-PATENT-4,459,528
				US-PATENT-APPL-SN-444150				US-PATENT-4,414,816		N84-28015*	c 35		NASA-CASE-WLP-10055-1
				US-PATENT-CLASS-181-121		N84-25037* #	c 36	NASA-CASE-NPO-16030-1					US-PATENT-APPL-SN-352827
				US-PATENT-CLASS-367-189				US-PATENT-APPL-SN-582494					US-PATENT-CLASS-73-862,65
				US-PATENT-CLASS-73-589		N84-27713*	c 04	NASA-CASE-NPO-15264-1					US-PATENT-4,425,808
				US-PATENT-CLASS-73-594				US-PATENT-APPL-SN-241154		N84-28016*	c 35		NASA-CASE-NPO-15423-1
				US-PATENT-4,445,378				US-PATENT-CLASS-343-105R					US-PATENT-APPL-SN-361216
N84-22934*	c 35			NASA-CASE-ARC-11361-1				US-PATENT-CLASS-364-452					US-PATENT-CLASS-250-296
				US-PATENT-APPL-SN-373771				US-PATENT-4,396,918					US-PATENT-4,435,642
				US-PATENT-CLASS-340-870.13		N84-27733*	c 06	NASA-CASE-LAR-12630-1		N84-28017*	c 35		NASA-CASE-NPO-15706-1
				US-PATENT-CLASS-73-147				US-PATENT-APPL-SN-383384					US-PATENT-APPL-SN-350475
				US-PATENT-CLASS-73-721				US-PATENT-CLASS-340-705					US-PATENT-CLASS-310-154
				US-PATENT-CLASS-73-756				US-PATENT-CLASS-340-971					US-PATENT-CLASS-310-171
N84-22943*	c 36			US-PATENT-4,442,716				US-PATENT-CLASS-340-975					US-PATENT-CLASS-310-68B
				NASA-CASE-NPO-15516-1				US-PATENT-CLASS-340-978					US-PATENT-CLASS-335-222
				US-PATENT-APPL-SN-364126				US-PATENT-CLASS-340-980					US-PATENT-4,443,724
				US-PATENT-CLASS-372-20				US-PATENT-CLASS-73-178R		N84-28018*	c 35		NASA-CASE-MFS-25754-1
				US-PATENT-CLASS-372-28				US-PATENT-4,453,163					US-PATENT-APPL-SN-359626
				US-PATENT-CLASS-372-32		N84-27749*	c 09	NASA-CASE-MFS-25791-1					US-PATENT-CLASS-33-169F
N84-22944*	c 36			US-PATENT-4,434,490				US-PATENT-APPL-SN-409678					US-PATENT-CLASS-62-128
				NASA-CASE-LEW-13526-1				US-PATENT-CLASS-417-159					US-PATENT-CLASS-73-150R
				US-PATENT-APPL-SN-358398				US-PATENT-CLASS-73-117.1					US-PATENT-CLASS-73-170R
				US-PATENT-CLASS-118-50.1				US-PATENT-4,454,753					US-PATENT-CLASS-73-32R
				US-PATENT-CLASS-118-624		N84-27784*	c 16	NASA-CASE-MFS-25853-1					US-PATENT-CLASS-73-864.41
				US-PATENT-CLASS-118-641				US-PATENT-APPL-SN-418138					US-PATENT-4,398,412
				US-PATENT-CLASS-427-399				US-PATENT-CLASS-244-158R		N84-28019*	c 35		NASA-CASE-LAR-12743-1
				US-PATENT-CLASS-427-53.1				US-PATENT-CLASS-244-172					US-PATENT-APPL-SN-372279
N84-22957*	c 37			US-PATENT-4,434,189				US-PATENT-CLASS-244-63					US-PATENT-CLASS-374-1
				NASA-CASE-LEW-13269-2				US-PATENT-4,452,412					US-PATENT-CLASS-73-1B
				US-PATENT-APPL-SN-242795		N84-27787*	c 18	NASA-CASE-MFS-25878-1					US-PATENT-4,426,874
				US-PATENT-APPL-SN-431448				US-PATENT-APPL-SN-431886		N84-28065*	c 36		NASA-CASE-GSC-12592-1
				US-PATENT-CLASS-415-174				US-PATENT-CLASS-244-172					US-PATENT-APPL-SN-199766
				US-PATENT-CLASS-427-34				US-PATENT-CLASS-244-2					US-PATENT-CLASS-372-103
				US-PATENT-CLASS-427-423				US-PATENT-CLASS-244-63					US-PATENT-CLASS-372-4
				US-PATENT-CLASS-427-53.1				US-PATENT-4,451,017					US-PATENT-CLASS-372-93
				US-PATENT-CLASS-428-155		N84-27829*	c 24	NASA-CASE-LEW-13758-1					US-PATENT-CLASS-372-95
				US-PATENT-4,377,371				US-PATENT-APPL-SN-418139					US-PATENT-CLASS-372-95
N84-22958*	c 37			US-PATENT-4,430,360				US-PATENT-CLASS-73-833					US-PATENT-4,446,556
				NASA-CASE-LEW-12590-1				US-PATENT-CLASS-73-856		N84-28081*	c 37		NASA-CASE-NPO-14597-2
				US-PATENT-APPL-SN-229693				US-PATENT-4,452,088					US-PATENT-APPL-SN-037194
				US-PATENT-CLASS-60-730		N84-27855*	c 26	NASA-CASE-LEW-13639-2					US-PATENT-APPL-SN-401288
				US-PATENT-CLASS-60-736				US-PATENT-APPL-SN-456460					US-PATENT-CLASS-417-328
				US-PATENT-4,429,537				US-PATENT-CLASS-427-34					US-PATENT-CLASS-417-392
N84-23012* #	c 43			NASA-CASE-NPO-15656-1				US-PATENT-CLASS-427-405					US-PATENT-CLASS-417-462
				US-PATENT-APPL-SN-569370				US-PATENT-CLASS-427-419.2					US-PATENT-4,449,894
N84-23018*	c 44			NASA-CASE-NPO-15496-1				US-PATENT-CLASS-428-632		N84-28082*	c 37		NASA-CASE-GSC-12550-1
				US-PATENT-APPL-SN-379602				US-PATENT-4,451,496					US-PATENT-APPL-SN-238888
				US-PATENT-CLASS-290-55				US-PATENT-CLASS-11405-1					US-PATENT-CLASS-73-468
				US-PATENT-CLASS-415-DIG.8		N84-27884*	c 27	NASA-CASE-ARC-11405-1					US-PATENT-CLASS-74-5.5
				US-PATENT-CLASS-415-2R				US-PATENT-APPL-SN-415880					US-PATENT-CLASS-74-573R
				US-PATENT-CLASS-60-641.12				US-PATENT-CLASS-528-271					US-PATENT-4,458,554
				US-PATENT-CLASS-60-698				US-PATENT-CLASS-528-310		N84-28083*	c 37		NASA-CASE-GSC-12762-1
				US-PATENT-CLASS-60-716				US-PATENT-CLASS-528-327					US-PATENT-APPL-SN-364094
N84-23019*	c 44			US-PATENT-4,433,544				US-PATENT-CLASS-528-331					US-PATENT-CLASS-269-224
				NASA-CASE-LAR-12958-1				US-PATENT-CLASS-528-362					US-PATENT-CLASS-269-242
				US-PATENT-APPL-SN-433196		N84-27885*	c 27	US-PATENT-4,450,268					US-PATENT-CLASS-269-244
				US-PATENT-CLASS-104-DIG.4				NASA-CASE-LEW-13770-1					US-PATENT-CLASS-269-252
				US-PATENT-CLASS-204-DIG.3				US-PATENT-APPL-SN-404809					US-PATENT-CLASS-269-285
				US-PATENT-CLASS-204-129				US-PATENT-CLASS-528-262					US-PATENT-4,448,408
				US-PATENT-CLASS-204-278				US-PATENT-CLASS-528-322		N84-28084*	c 37		NASA-CASE-LAR-12644-1
				US-PATENT-CLASS-204-280				US-PATENT-CLASS-528-342					US-PATENT-APPL-SN-387728
				US-PATENT-CLASS-423-303				US-PATENT-4,455,418					US-PATENT-CLASS-74-753
				US-PATENT-CLASS-429-111		N84-27886*	c 27	NASA-CASE-LAR-12862-1					US-PATENT-CLASS-74-758
				US-PATENT-4,439,301				US-PATENT-APPL-SN-435511					US-PATENT-CLASS-74-812
N84-23095*	c 52			NASA-CASE-LEW-13107-2				US-PATENT-CLASS-220-306					US-PATENT-4,446,757
				US-PATENT-APPL-SN-444124				US-PATENT-CLASS-244-117A					NASA-CASE-LAR-12786-1
				US-PATENT-CLASS-156-643				US-PATENT-CLASS-244-158A		N84-28085*	c 37		US-PATENT-APPL-SN-309292
				US-PATENT-CLASS-156-644				US-PATENT-4,456,208					US-PATENT-CLASS-30-180
				US-PATENT-CLASS-156-668		N84-27951*	c 32	NASA-CASE-NPO-15024-1					US-PATENT-CLASS-30-188
				US-PATENT-CLASS-204-192E				US-PATENT-APPL-SN-284287					US-PATENT-CLASS-30-228
				US-PATENT-4,432,853				US-PATENT-CLASS-343-17.7					US-PATENT-CLASS-30-249
N84-23113*	c 54			NASA-CASE-MS-20261-2				US-PATENT-CLASS-434-2					US-PATENT-CLASS-30-272R
				US-PATENT-APPL-SN-393581				US-PATENT-4,450,447					US-PATENT-4,458,418
				US-PATENT-CLASS-2-161R		N84-27952*	c 32	NASA-CASE-MS-16170-2		N84-28203*	c 44		NASA-CASE-NPO-15388-1
				US-PATENT-CLASS-2-167				US-PATENT-APPL-SN-147695					US-PATENT-APPL-SN-284286
				US-PATENT-4,433,439				US-PATENT-CLASS-329-124					US-PATENT-CLASS-126-419
N84-23233*	c 71			NASA-CASE-NPO-15689-1				US-PATENT-CLASS-375-120					US-PATENT-CLASS-126-438
				US-PATENT-APPL-SN-358089				US-PATENT-CLASS-375-77					US-PATENT-CLASS-126-451
				US-PATENT-CLASS-310-300				US-PATENT-CLASS-375-81					US-PATENT-4,433,672
				US-PATENT-CLASS-318-116				US-PATENT-CLASS-455-202		N84-28204*	c 44		NASA-CASE-NPO-15662-1
				US-PATENT-CLASS-60-721				US-PATENT-CLASS-455-208					US-PATENT-APPL-SN-392103
				US-PATENT-CLASS-73-505				US-PATENT-CLASS-455-260					US-PATENT-CLASS-126-418
				US-PATENT-4,420,977				US-PATENT-CLASS-455-265					US-PATENT-CLASS-126-438
N84-23247*	c 74			NASA-CASE-NPO-15345-1				US-PATENT-4,455,680					US-PATENT-CLASS-126-440
				US-PATENT-APPL-SN-276749				NASA-CASE-LEW-13736-1					US-PATENT-4,449,514
				US-PATENT-CLASS-358-125		N84-27974*	c 33	US-PATENT-APPL-SN-434084		N84-28205*	c 44		NASA-CASE-LEW-13653-1
				US-PATENT-CLASS-358-213				US-PATENT-CLASS-315-3.6					US-PATENT-APPL-SN-352821
				US-PATENT-4,430,673				US-PATENT-CLASS-315-39.3					US-PATENT-CLASS-204-290
N84-23248*	c 74			NASA-CASE-GSC-12756-1				US-PATENT-CLASS-331-82					US-PATENT-CLASS-29-623.5
				US-PATENT-APPL-SN-378535				US-PATENT-CLASS-333-162					US-PATENT-CLASS-427-113
				US-PATENT-CLASS-350-172				US-PATENT-4,459,562					US-PATENT-CLASS-427-115
				US-PATENT-CLASS-350-173		N84-27975*	c 33	NASA-CASE-MFS-25854-1					

			US-PATENT-CLASS-427-125	US-PATENT-APPL-SN-452466	US-PATENT-CLASS-250-251
			US-PATENT-CLASS-427-226	US-PATENT-CLASS-297-DIG.5	US-PATENT-CLASS-250-252.1
			US-PATENT-CLASS-427-372.2	US-PATENT-CLASS-428-246	US-PATENT-CLASS-250-372
			US-PATENT-CLASS-427-379	US-PATENT-CLASS-428-280	US-PATENT-CLASS-4,469,942
			US-PATENT-CLASS-427-380	US-PATENT-CLASS-428-287	NAS 1.71:MFS-25717-1
			US-PATENT-CLASS-427-443	US-PATENT-CLASS-428-304.4	NASA-CASE-MFS-25717-1
			US-PATENT-CLASS-429-44	US-PATENT-CLASS-428-319.1	US-PATENT-APPL-SN-441897
			US-PATENT-4,454,649	US-PATENT-CLASS-428-423.5	US-PATENT-CLASS-175-45
N84-28292*	c 47		NASA-CASE-LAR-12971-1	US-PATENT-CLASS-428-71	US-PATENT-CLASS-299-1
			US-PATENT-APPL-SN-444149	US-PATENT-CLASS-428-76	US-PATENT-4,466,667
			US-PATENT-CLASS-250-356.1	US-PATENT-CLASS-428-921	NAS 1.71:NPO-15341-1
			US-PATENT-CLASS-73-189	US-PATENT-CLASS-5-459	NASA-CASE-NPO-15341-1
			US-PATENT-CLASS-73-861.71	US-PATENT-4,463,465	US-PATENT-APPL-SN-315583
			US-PATENT-4,449,400	NAS 1.71:LAR-13233-1	US-PATENT-CLASS-180-168
N84-28361*	c 51		NASA-CASE-ARC-11359-1	NASA-CASE-LAR-13233-1	US-PATENT-CLASS-318-587
			US-PATENT-APPL-SN-392092	US-PATENT-APPL-SN-649329	US-PATENT-CLASS-340-905
			US-PATENT-CLASS-264-41	NAS 1.71:LEW-13524-1	US-PATENT-CLASS-340-988
			US-PATENT-CLASS-521-141	NASA-CASE-LEW-13524-1	US-PATENT-4,472,716
			US-PATENT-CLASS-521-142	US-PATENT-APPL-SN-238257	NAS 1.71:MFS-25862-2
			US-PATENT-CLASS-521-149	US-PATENT-CLASS-415-115	NASA-CASE-MFS-25862-2
			US-PATENT-4,456,708	US-PATENT-CLASS-60-39.29	US-PATENT-APPL-SN-460509
N84-28388*	c 52		NASA-CASE-LAR-12650-1	US-PATENT-CLASS-60-39.83	US-PATENT-CLASS-73-12
			US-PATENT-APPL-SN-264381	US-PATENT-4,416,111	US-PATENT-CLASS-73-588
			US-PATENT-CLASS-128-325	NAS 1.71:LAR-12884-1	US-PATENT-4,470,293
			US-PATENT-CLASS-128-346	NASA-CASE-LAR-12884-1	NAS 1.71:LEW-12995-1
			US-PATENT-CLASS-24-560	US-PATENT-APPL-SN-510136	NASA-CASE-LEW-12995-1
			US-PATENT-4,416,266	US-PATENT-CLASS-428-182	US-PATENT-APPL-SN-157150
N84-28389*	c 52		NASA-CASE-LAR-12650-2	US-PATENT-CLASS-428-184	US-PATENT-CLASS-60-303
			US-PATENT-APPL-SN-264381	US-PATENT-CLASS-428-595	US-PATENT-CLASS-60-606
			US-PATENT-APPL-SN-465363	US-PATENT-CLASS-52-814	US-PATENT-4,449,370
			US-PATENT-CLASS-156-191	US-PATENT-4,472,473	NASA-CASE-NPO-15351-2
			US-PATENT-CLASS-156-285	NAS 1.71:LEW-13639-1	US-PATENT-APPL-SN-224231
			US-PATENT-CLASS-156-289	NASA-CASE-LEW-13639-1	US-PATENT-APPL-SN-412039
			US-PATENT-CLASS-156-382	US-PATENT-APPL-SN-403378	US-PATENT-CLASS-73-178-R
			US-PATENT-CLASS-29-423	US-PATENT-CLASS-416-241R	US-PATENT-4,346,595
			US-PATENT-CLASS-29-451	US-PATENT-CLASS-428-564	US-PATENT-4,474,062
			US-PATENT-4,447,943	US-PATENT-CLASS-428-639	NASA-CASE-LAR-12950-1
N84-28484*	c 54		NASA-CASE-MSC-20261-1	US-PATENT-CLASS-428-678	US-PATENT-APPL-SN-481106
			US-PATENT-APPL-SN-393586	US-PATENT-4,446,199	US-PATENT-CLASS-73-147
			US-PATENT-CLASS-2-161R	NAS 1.71:NPO-15753-1	US-PATENT-4,475,385
			US-PATENT-CLASS-2-164	NASA-CASE-NPO-15753-1	NAS 1.71:LAR-13230-1
			US-PATENT-CLASS-2-167	US-PATENT-APPL-SN-342871	NASA-CASE-LAR-13230-1
			US-PATENT-4,454,611	US-PATENT-CLASS-219-203	US-PATENT-APPL-SN-548584
N84-28491*	c 60		NASA-CASE-GSC-12447-2	US-PATENT-CLASS-219-219	US-PATENT-CLASS-523-454
			US-PATENT-APPL-SN-128230	US-PATENT-CLASS-219-522	US-PATENT-CLASS-523-458
			US-PATENT-APPL-SN-501060	US-PATENT-CLASS-219-541	US-PATENT-CLASS-525-484
			US-PATENT-CLASS-364-900	US-PATENT-CLASS-219-543	US-PATENT-CLASS-528-407
			US-PATENT-4,435,781	US-PATENT-CLASS-338-309	US-PATENT-CLASS-528-92
N84-28492*	c 60		NASA-CASE-MSC-20258-1	US-PATENT-CLASS-428-432	US-PATENT-4,473,674
			US-PATENT-APPL-SN-235472	US-PATENT-4,459,470	NAS 1.71:NPO-15519-1
			US-PATENT-CLASS-340-825.21	NAS 1.71:MFS-25302-2	NASA-CASE-NPO-15519-2
			US-PATENT-CLASS-340-825.5	NASA-CASE-MFS-25302-2	US-PATENT-APPL-SN-314928
			US-PATENT-CLASS-364-900	US-PATENT-APPL-SN-243683	US-PATENT-CLASS-343-5-CM
			US-PATENT-4,446,459	US-PATENT-APPL-SN-481086	US-PATENT-CLASS-343-5-DP
N84-28565*	c 70		NASA-CASE-LEW-12919-2	US-PATENT-CLASS-307-87	US-PATENT-CLASS-343-5-FT
			US-PATENT-APPL-SN-264378	US-PATENT-CLASS-322-25	US-PATENT-4,471,357
			US-PATENT-APPL-SN-364072	US-PATENT-CLASS-322-29	NAS 1.71:NPO-15558-1
			US-PATENT-CLASS-313-106	US-PATENT-CLASS-322-47	NASA-CASE-NPO-15558-1
			US-PATENT-CLASS-313-107	US-PATENT-CLASS-322-95	US-PATENT-APPL-SN-373770
			US-PATENT-CLASS-313-351	US-PATENT-4,388,585	US-PATENT-CLASS-250-343
			US-PATENT-CLASS-315-5.38	US-PATENT-4,473,792	US-PATENT-CLASS-250-351
			US-PATENT-4,349,424	NAS 1.71:MFS-25852-1	US-PATENT-CLASS-356-434
			US-PATENT-4,417,175	NASA-CASE-MFS-25852-1	US-PATENT-CLASS-356-51
N84-28568*	c 71		NASA-CASE-MFS-25828-1	US-PATENT-APPL-SN-450319	US-PATENT-4,474,471
			US-PATENT-APPL-SN-493866	US-PATENT-CLASS-318-729	NAS 1.71:NPO-15808-1
			US-PATENT-CLASS-137-838	US-PATENT-CLASS-318-802	NASA-CASE-NPO-15808-1
			US-PATENT-CLASS-366-106	US-PATENT-CLASS-4,469,998	US-PATENT-APPL-SN-383068
			US-PATENT-CLASS-425-6	NAS 1.71:LEW-13495-1	US-PATENT-CLASS-126-415
			US-PATENT-CLASS-65-142	NASA-CASE-LEW-13495-1	US-PATENT-CLASS-4-498
			US-PATENT-CLASS-65-160	US-PATENT-APPL-SN-368188	US-PATENT-4,470,403
			US-PATENT-CLASS-65-21.3	US-PATENT-CLASS-323-901	NASA-CASE-GSC-12652-1
			US-PATENT-CLASS-65-21.4	US-PATENT-CLASS-363-22	US-PATENT-APPL-SN-377891
			US-PATENT-4,447,251	US-PATENT-CLASS-363-49	US-PATENT-CLASS-128-24-A
N84-28575*	c 72		NASA-CASE-MFS-25641-1	US-PATENT-4,464,710	US-PATENT-CLASS-128-328
			US-PATENT-APPL-SN-342857	NAS 1.71:GSC-12682-1	US-PATENT-4,474,180
			US-PATENT-CLASS-250-305	NASA-CASE-GSC-12682-1	NASA-CASE-NPO-15786-1
			US-PATENT-CLASS-324-457	US-PATENT-APPL-SN-350477	US-PATENT-APPL-SN-366103
			US-PATENT-CLASS-324-71.3	US-PATENT-CLASS-250-367	US-PATENT-CLASS-204-1T
			US-PATENT-CLASS-324-72.5	US-PATENT-CLASS-250-385	US-PATENT-CLASS-204-37.6
			US-PATENT-4,455,532	US-PATENT-CLASS-250-483.1	US-PATENT-CLASS-204-56R
N84-28590*	c 74		NASA-CASE-NPO-15805-1	US-PATENT-CLASS-357-29	US-PATENT-CLASS-324-158D
			US-PATENT-APPL-SN-296137	US-PATENT-CLASS-357-30	US-PATENT-CLASS-324-158T
			US-PATENT-CLASS-250-332	US-PATENT-CLASS-357-32	US-PATENT-4,462,871
			US-PATENT-CLASS-250-338	US-PATENT-4,472,728	NAS 1.71:NPO-15629-1
			US-PATENT-4,443,701	NAS 1.71:NPO-13556-1	NASA-CASE-NPO-13556-1
N84-28732*	c 02		NASA-CASE-LAR-12396-1	NASA-CASE-NPO-13556-1	US-PATENT-CLASS-156-DIG.64
			US-PATENT-APPL-SN-017889	US-PATENT-APPL-SN-561369	US-PATENT-CLASS-156-DIG.88
			US-PATENT-CLASS-244-35R	US-PATENT-CLASS-250-339	US-PATENT-CLASS-156-DIG.98
			US-PATENT-CLASS-416-223R	US-PATENT-CLASS-356-188	US-PATENT-CLASS-156-608
			US-PATENT-CLASS-416-242	US-PATENT-CLASS-356-189	US-PATENT-CLASS-156-617-SP
			US-PATENT-4,459,083	US-PATENT-CLASS-356-73	US-PATENT-CLASS-156-617-V
N84-32447* #	c 25		NAS 1.71:LAR-13257-1	US-PATENT-CLASS-356-74	US-PATENT-CLASS-422-246
			NASA-CASE-LAR-13257-1	US-PATENT-4,043,668	US-PATENT-CLASS-422-249
			US-PATENT-APPL-SN-633178	NAS 1.71:NPO-15644-1	US-PATENT-4,469,552
N84-33394*	c 03		NAS 1.71:ARC-11423-1	NASA-CASE-NPO-15644-1	NAS 1.71:LAR-12787-2
			NASA-CASE-ARC-11423-1	US-PATENT-APPL-SN-358088	NASA-CASE-LAR-12787-2

			US-PATENT-APPL-SN-301078	US-PATENT-CLASS-251-265	N85-21349*	c 27	NAS 1.71: LAR-12775-2
			US-PATENT-APPL-SN-5226628	US-PATENT-CLASS-251-267			NASA-CASE-LAR-12775-2
			US-PATENT-CLASS-244-214	US-PATENT-CLASS-251-284			US-PATENT-APPL-SN-308201
			US-PATENT-CLASS-244-90R	US-PATENT-CLASS-251-297			US-PATENT-APPL-SN-461788
			US-PATENT-4,485,992	US-PATENT-CLASS-74-424.8B			US-PATENT-CLASS-525-181
N85-19990*	c 09		NAS 1.71: KSC-11218-1	US-PATENT-CLASS-74-424.8VA			US-PATENT-CLASS-525-182
			NASA-CASE-KSC-11218-1	US-PATENT-4,483,512			US-PATENT-CLASS-525-183
			US-PATENT-APPL-SN-387649	NAS 1.71: LEW-13414-1	N85-20530*	c 44	US-PATENT-CLASS-525-184
			US-PATENT-CLASS-434-242	NASA-CASE-LEW-13414-1			US-PATENT-CLASS-525-474
			US-PATENT-CLASS-434-243	US-PATENT-APPL-SN-465364			US-PATENT-4,389,504
			US-PATENT-CLASS-434-35	US-PATENT-CLASS-136-256			US-PATENT-4,497,935
			US-PATENT-CLASS-434-49	US-PATENT-CLASS-427-85	N85-21350*	c 27	NAS 1.71: LEW-13770-3
			US-PATENT-4,490,117	US-PATENT-4,478,879			NASA-CASE-LEW-13770-3
N85-20123*	c 27		NAS 1.71: LAR-12723-1	NAS 1.71: LAR-12979-1	N85-21147*	c 05	US-PATENT-APPL-SN-516217
			NASA-CASE-LAR-12723-1	NASA-CASE-LAR-12979-1			US-PATENT-APPL-SN-561431
			US-PATENT-APPL-SN-199768	US-PATENT-APPL-SN-508371			US-PATENT-CLASS-526-217
			US-PATENT-CLASS-525-420	US-PATENT-CLASS-244-139			US-PATENT-CLASS-526-262
			US-PATENT-CLASS-528-183	US-PATENT-CLASS-244-147			US-PATENT-CLASS-528-229
			US-PATENT-CLASS-528-192	US-PATENT-CLASS-244-75R			US-PATENT-CLASS-528-315
			US-PATENT-CLASS-528-220	US-PATENT-4,496,122			US-PATENT-CLASS-528-322
			US-PATENT-CLASS-528-336	NAS 1.71: LAR-13014-1	N85-21178*	c 09	US-PATENT-CLASS-528-336
			US-PATENT-CLASS-528-345	NASA-CASE-LAR-13014-1			US-PATENT-CLASS-528-342
			US-PATENT-4,395,540	US-PATENT-APPL-SN-527918			US-PATENT-4,497,948
N85-20124*	c 27		NAS 1.71: LAR-12858-2	US-PATENT-CLASS-73-147	N85-21351*	c 27	NAS 1.71: LEW-13770-4
			NASA-CASE-LAR-12858-2	US-PATENT-4,493,211			NASA-CASE-LEW-13770-4
			US-PATENT-APPL-SN-407240	NAS 1.71: LEW-13881-1			US-PATENT-APPL-SN-516217
			US-PATENT-APPL-SN-492282	NASA-CASE-LEW-13881-1	N85-21256*	c 20	US-PATENT-APPL-SN-561429
			US-PATENT-CLASS-264-DIG.65	US-PATENT-APPL-SN-473498			US-PATENT-CLASS-526-262
			US-PATENT-CLASS-264-112	US-PATENT-CLASS-60-202			US-PATENT-CLASS-528-229
			US-PATENT-CLASS-264-120	US-PATENT-4,466,242			US-PATENT-CLASS-528-322
			US-PATENT-CLASS-264-137	NAS 1.71: LEW-13324-2	N85-21266*	c 24	US-PATENT-CLASS-528-342
			US-PATENT-CLASS-264-152	NASA-CASE-LEW-13324-2			US-PATENT-4,497,939
			US-PATENT-CLASS-264-258	US-PATENT-APPL-SN-375784			NAS 1.71: LEW-13770-5
			US-PATENT-CLASS-264-331.12	US-PATENT-APPL-SN-523297	N85-21352*	c 27	NASA-CASE-LEW-13770-5
			US-PATENT-CLASS-264-331.19	US-PATENT-CLASS-428-633			US-PATENT-APPL-SN-516217
			US-PATENT-CLASS-528-226	US-PATENT-CLASS-428-656			US-PATENT-APPL-SN-561435
			US-PATENT-CLASS-528-239	US-PATENT-CLASS-428-678			US-PATENT-CLASS-526-262
			US-PATENT-CLASS-528-241	US-PATENT-CLASS-428-679			US-PATENT-CLASS-528-229
			US-PATENT-CLASS-528-258	US-PATENT-CLASS-428-680			US-PATENT-CLASS-528-322
			US-PATENT-CLASS-528-279	US-PATENT-CLASS-428-681			US-PATENT-CLASS-528-342
			US-PATENT-4,398,021	US-PATENT-CLASS-428-682			US-PATENT-4,497,940
			US-PATENT-4,489,027	US-PATENT-CLASS-428-683	N85-21404*	c 31	NAS 1.71: GSC-12799-1
N85-20125*	c 27		NAS 1.71: LAR-12894-1	US-PATENT-CLASS-428-684			NASA-CASE-GSC-12799-1
			NASA-CASE-LAR-12894-1	US-PATENT-4,485,151			US-PATENT-APPL-SN-461724
			US-PATENT-APPL-SN-516087	NAS 1.71: LEW-13837-2	N85-21267*	c 24	US-PATENT-CLASS-31-35
			US-PATENT-CLASS-156-273.7	NASA-CASE-LEW-13837-2			US-PATENT-CLASS-310-22
			US-PATENT-CLASS-24-304	US-PATENT-APPL-SN-495381			US-PATENT-CLASS-417-417
			US-PATENT-CLASS-24-447	US-PATENT-APPL-SN-591089			US-PATENT-CLASS-417-488
			US-PATENT-CLASS-24-450	US-PATENT-CLASS-204-192C			US-PATENT-CLASS-62-6
			US-PATENT-CLASS-24-693	US-PATENT-CLASS-204-192N			US-PATENT-CLASS-92-98R
			US-PATENT-4,488,335	US-PATENT-CLASS-204-192R			US-PATENT-4,500,265
N85-20126*	c 27		NAS 1.71: MFS-25862-1	US-PATENT-CLASS-423-445	N85-21427*	c 32	NAS 1.71: MSC-18578-1
			NASA-CASE-MFS-25862-1	US-PATENT-CLASS-423-446			NASA-CASE-MSC-18578-1
			US-PATENT-APPL-SN-465366	US-PATENT-CLASS-423-449			US-PATENT-APPL-SN-367132
			US-PATENT-CLASS-73-579	US-PATENT-CLASS-427-39			US-PATENT-CLASS-358-161
			US-PATENT-CLASS-73-582	US-PATENT-4,437,962			US-PATENT-CLASS-358-174
			US-PATENT-CLASS-73-588	US-PATENT-4,495,044			US-PATENT-CLASS-358-217
			US-PATENT-4,479,386	NAS 1.71: GSC-12808-1	N85-21279*	c 25	US-PATENT-CLASS-358-219
N85-20153*	c 31		NAS 1.71: LEW-14080-1	NASA-CASE-GSC-12808-1			US-PATENT-4,495,520
			NASA-CASE-LEW-14080-1	US-PATENT-APPL-SN-462497	N85-21428*	c 32	NAS 1.71: NPO-15433-1
			US-PATENT-APPL-SN-628866	US-PATENT-CLASS-376-159			NASA-CASE-NPO-15433-1
			US-PATENT-CLASS-204-192C	US-PATENT-4,483,817			US-PATENT-APPL-SN-250585
			US-PATENT-CLASS-204-192R	NAS 1.71: MFS-25721-1	N85-21280*	c 25	US-PATENT-CLASS-364-200
			US-PATENT-CLASS-204-192SP	NASA-CASE-MFS-25721-1			US-PATENT-4,493,021
			US-PATENT-CLASS-423-DIG.10	US-PATENT-APPL-SN-492964	N85-21491*	c 33	NAS 1.71: NPO-15560-1
			US-PATENT-CLASS-423-414	US-PATENT-CLASS-556-410			NASA-CASE-NPO-15560-1
			US-PATENT-CLASS-423-445	US-PATENT-4,474,975			US-PATENT-APPL-SN-275909
			US-PATENT-CLASS-423-446	NAS 1.71: ARC-11368-2			US-PATENT-CLASS-250-426
			US-PATENT-CLASS-423-449	NASA-CASE-ARC-11368-2			US-PATENT-CLASS-313-131A
			US-PATENT-4,490,229	US-PATENT-APPL-SN-175452			US-PATENT-CLASS-315-111.31
N85-20294*	c 35		NAS 1.71: GSC-12789-1	US-PATENT-APPL-SN-288267			US-PATENT-CLASS-315-111.81
			NASA-CASE-GSC-12789-1	US-PATENT-APPL-SN-502820			US-PATENT-4,475,063
			US-PATENT-APPL-SN-409680	US-PATENT-CLASS-526-262	N85-21492*	c 33	NAS 1.71: LEW-13833-1
			US-PATENT-CLASS-177-147	US-PATENT-CLASS-526-274			NASA-CASE-LEW-13833-1
			US-PATENT-CLASS-177-260	US-PATENT-CLASS-528-168			US-PATENT-APPL-SN-486471
			US-PATENT-CLASS-73-862.54	US-PATENT-CLASS-528-170			US-PATENT-CLASS-136-255
			US-PATENT-4,479,560	US-PATENT-CLASS-528-321			US-PATENT-CLASS-357-12
N85-20295*	c 35		NAS 1.71: LAR-13065-1	US-PATENT-CLASS-528-322			US-PATENT-CLASS-357-30
			NASA-CASE-LAR-13065-1	US-PATENT-4,276,344			US-PATENT-4,482,779
			US-PATENT-APPL-SN-484745	US-PATENT-4,395,557	N85-21493*	c 33	NAS 1.71: NPO-15920-1
			US-PATENT-CLASS-73-187	US-PATENT-4,496,701			NASA-CASE-NPO-15920-1
			US-PATENT-4,485,671	NASA-CASE-ARC-11413-1			US-PATENT-APPL-SN-403848
N85-20300* #	c 35		NAS 1.71: MFS-28008-1	US-PATENT-APPL-SN-440656	N85-21348*	c 27	US-PATENT-CLASS-343-17.7
			NASA-CASE-MFS-28008-1	US-PATENT-CLASS-528-125			US-PATENT-CLASS-343-376
			US-PATENT-APPL-SN-684194	US-PATENT-CLASS-528-126			US-PATENT-4,488,155
N85-20337*	c 37		NAS 1.71: GSC-12582-2	US-PATENT-CLASS-528-128	N85-21568*	c 34	NAS 1.71: LAR-12588-1
			NASA-CASE-GSC-12582-2	US-PATENT-CLASS-528-166			NASA-CASE-LAR-12588-1
			US-PATENT-APPL-SN-220213	US-PATENT-CLASS-528-185			US-PATENT-APPL-SN-234222
			US-PATENT-APPL-SN-415960	US-PATENT-CLASS-528-186			US-PATENT-CLASS-165-104.26
			US-PATENT-CLASS-104-281	US-PATENT-CLASS-528-187			US-PATENT-CLASS-73-179
			US-PATENT-CLASS-104-284	US-PATENT-CLASS-528-229			US-PATENT-CLASS-73-708
			US-PATENT-CLASS-308-10	US-PATENT-CLASS-528-352	N85-21595*	c 35	US-PATENT-4,485,670
			US-PATENT-4,473,259	US-PATENT-CLASS-528-353			NAS 1.71: MSC-20275-1
N85-20338*	c 37		NAS 1.71: MSC-20112-1	US-PATENT-4,499,260			NASA-CASE-MSC-20275-1
			NASA-CASE-MSC-20112-1				US-PATENT-APPL-SN-425205
			US-PATENT-APPL-SN-392104				US-PATENT-CLASS-222-309

N85-21596*	c 35	US-PATENT-CLASS-222-340	N85-21992*	c 60	US-PATENT-CLASS-343-5W	N85-29118*	c 32	US-PATENT-CLASS-358-109
		US-PATENT-CLASS-222-43			US-PATENT-4,463,357			US-PATENT-CLASS-358-133
		US-PATENT-CLASS-222-48			NAS 1.71:NPO-15295-1			US-PATENT-4,513,317
		US-PATENT-4,488,663			NASA-CASE-NPO-15295-1			NASA-CASE-NPO-15743-1
		NAS 1.71:NPO-15759-1			US-PATENT-APPL-SN-291645			US-PATENT-APPL-SN-448881
		NASA-CASE-NPO-15759-1			US-PATENT-CLASS-364-200			US-PATENT-CLASS-343-876
		US-PATENT-APPL-SN-367136			US-PATENT-4,481,570			US-PATENT-CLASS-455-73
		US-PATENT-CLASS-324-427			NAS 1.71:NPO-15466-1			US-PATENT-4,503,436
		US-PATENT-CLASS-429-58			NASA-CASE-NPO-15466-1			NASA-CASE-NPO-15553-1
		N85-21597*			c 35			US-PATENT-APPL-SN-361217
N85-21598*	c 35	US-PATENT-4,499,424	N85-22104*	c 71	US-PATENT-CLASS-23-313R	N85-29143*	c 33	US-PATENT-CLASS-156-DIG.62
		NAS 1.71:NPO-16027-1			US-PATENT-CLASS-55-15			US-PATENT-CLASS-364-400
		NASA-CASE-NPO-16027-1			US-PATENT-CLASS-55-277			US-PATENT-CLASS-364-453
		US-PATENT-APPL-SN-500044			US-PATENT-4,475,921			US-PATENT-CLASS-74-5.6D
		US-PATENT-CLASS-73-40.5A			NAS 1.71:NPO-16022-1			US-PATENT-4,521,854
		US-PATENT-CLASS-73-753			NASA-CASE-NPO-16022-1			NASA-CASE-NPO-15890-1-CU
		US-PATENT-4,498,333			US-PATENT-APPL-SN-526750			US-PATENT-APPL-SN-556513
		NAS 1.71:WLP-10055-2			US-PATENT-CLASS-73-505			US-PATENT-CLASS-331-3
		NASA-CASE-WLP-10055-2			US-PATENT-4,463,606			US-PATENT-CLASS-331-31
		US-PATENT-APPL-SN-352827			NAS 1.71:NPO-15155-1			US-PATENT-CLASS-331-36C
N85-21631*	c 36	US-PATENT-APPL-SN-526770	N85-22139*	c 74	NASA-CASE-NPO-15155-1	N85-29144*	c 33	US-PATENT-CLASS-331-94.1
		US-PATENT-CLASS-29-610SG			US-PATENT-APPL-SN-242797			US-PATENT-CLASS-331-96
		US-PATENT-4,425,808			US-PATENT-CLASS-250-221			US-PATENT-CLASS-333-231
		US-PATENT-4,498,231			US-PATENT-CLASS-340-555			US-PATENT-4,517,530
		NAS 1.71:NPO-15790-1			US-PATENT-4,479,053			NASA-CASE-LEW-13102-1
		NASA-CASE-NPO-15790-1			NAS 1.71:MFS-25861-1			US-PATENT-APPL-SN-282298
		US-PATENT-APPL-SN-423016			NASA-CASE-MFS-25861-1			US-PATENT-CLASS-429-206
		US-PATENT-CLASS-250-339			US-PATENT-APPL-SN-504345			US-PATENT-CLASS-429-249
		US-PATENT-CLASS-250-343			US-PATENT-CLASS-318-729			US-PATENT-4,505,998
		N85-21639*			c 36			US-PATENT-4,489,239
N85-21649*	c 37	NAS 1.71:GSC-12558-1	N85-23396*	c 74	US-PATENT-APPL-SN-434085	N85-29146*	c 33	US-PATENT-APPL-SN-506477
		NASA-CASE-GSC-12558-1			NAS 1.71:NPO-15801-1			US-PATENT-CLASS-336-198
		US-PATENT-APPL-SN-383086			NASA-CASE-NPO-15801-1			US-PATENT-CLASS-336-84C
		US-PATENT-CLASS-356-43			US-PATENT-APPL-SN-478130			US-PATENT-4,510,476
		US-PATENT-CLASS-356-45			US-PATENT-CLASS-350-168			NASA-CASE-GSC-12818-1
		US-PATENT-CLASS-374-137			US-PATENT-CLASS-350-505			US-PATENT-APPL-SN-511362
		US-PATENT-CLASS-73-705			US-PATENT-CLASS-350-619			US-PATENT-CLASS-307-82
		US-PATENT-4,493,553			US-PATENT-CLASS-356-323			US-PATENT-CLASS-363-100
		NAS 1.71:MSC-20319-1			US-PATENT-CLASS-356-330			US-PATENT-CLASS-363-19
		NASA-CASE-MSC-20319-1			US-PATENT-CLASS-356-331			US-PATENT-CLASS-363-23
N85-21650*	c 37	US-PATENT-APPL-SN-393582	N85-25436* #	c 24	US-PATENT-4,497,540	N85-29147*	c 33	US-PATENT-APPL-SN-507626
		US-PATENT-CLASS-292-252			NAS 1.15:76884			US-PATENT-CLASS-165-104.14
		US-PATENT-CLASS-403-317			NASA-TM-76884			US-PATENT-CLASS-165-32
		US-PATENT-CLASS-81-177G			NASA-CASE-LAR-13262-1			US-PATENT-CLASS-310-306
		US-PATENT-4,483,639			US-PATENT-APPL-SN-608741			US-PATENT-4,506,183
		NAS 1.71:NPO-15483-1			US-PATENT-CLASS-525-532			NASA-CASE-MSC-20497-1
		NASA-CASE-NPO-15483-1			US-PATENT-CLASS-525-534			US-PATENT-APPL-SN-615505
		US-PATENT-APPL-SN-387648			US-PATENT-CLASS-528-86			US-PATENT-CLASS-122-366
		US-PATENT-CLASS-125-13R			US-PATENT-4,510,296			US-PATENT-CLASS-165-1
		US-PATENT-CLASS-125-15			NASA-CASE-LEW-13770-2			US-PATENT-CLASS-165-104.26
N85-21651*	c 37	US-PATENT-CLASS-51-73R	N85-28982*	c 25	US-PATENT-APPL-SN-404809	N85-29179*	c 34	US-PATENT-4,515,207
		US-PATENT-CLASS-82-90			US-PATENT-APPL-SN-516217			NASA-CASE-LEW-12950-2
		US-PATENT-CLASS-83-664			US-PATENT-CLASS-526-262			US-PATENT-APPL-SN-202228
		US-PATENT-CLASS-83-676			US-PATENT-CLASS-528-322			US-PATENT-APPL-SN-507626
		US-PATENT-4,475,527			US-PATENT-CLASS-528-342			US-PATENT-CLASS-165-104.14
		NAS 1.71:LAR-12868-1			US-PATENT-4,455,418			US-PATENT-CLASS-165-32
		NASA-CASE-LAR-12868-1			US-PATENT-4,514,557			US-PATENT-CLASS-310-306
		US-PATENT-APPL-SN-322321			NASA-CASE-NPO-15928-1			US-PATENT-4,506,183
		US-PATENT-CLASS-374-208			US-PATENT-APPL-SN-537616			NASA-CASE-MSC-20497-1
		US-PATENT-CLASS-374-210			US-PATENT-CLASS-204-192N			US-PATENT-APPL-SN-615505
N85-21652*	c 37	US-PATENT-4,491,427	N85-29005*	c 26	US-PATENT-CLASS-427-38	N85-29180*	c 34	US-PATENT-CLASS-122-366
		NAS 1.71:NPO-15851-1			US-PATENT-CLASS-427-47			US-PATENT-CLASS-165-1
		NASA-CASE-NPO-15851-1			US-PATENT-4,522,844			US-PATENT-CLASS-165-104.26
		US-PATENT-APPL-SN-415879			NASA-CASE-NPO-16103-1			US-PATENT-4,515,207
		US-PATENT-CLASS-134-37			US-PATENT-APPL-SN-617871			NASA-CASE-NPO-16494-1-CU
		US-PATENT-CLASS-15-406			US-PATENT-CLASS-525-26			NASA-CASE-NPO-16494-1-CU
		US-PATENT-CLASS-422-129			US-PATENT-CLASS-525-47			US-PATENT-APPL-SN-739789
		US-PATENT-CLASS-422-199			US-PATENT-CLASS-526-328			NASA-CASE-NPO-15722-1
		US-PATENT-4,500,492			US-PATENT-CLASS-526-329.2			US-PATENT-APPL-SN-457992
		NAS 1.71:NPO-15651-1			US-PATENT-CLASS-528-288			US-PATENT-CLASS-204-1T
N85-21723*	c 43	NASA-CASE-NPO-15651-1	N85-29044*	c 27	US-PATENT-CLASS-528-288	N85-29212*	c 35	US-PATENT-CLASS-204-430
		US-PATENT-APPL-SN-375620			US-PATENT-CLASS-528-289			US-PATENT-CLASS-73-336.5
		US-PATENT-CLASS-343-352			US-PATENT-CLASS-528-303			US-PATENT-4,514,178
		US-PATENT-CLASS-374-122			US-PATENT-CLASS-528-304			NASA-CASE-MSC-18866-1
		US-PATENT-4,499,470			US-PATENT-4,523,008			US-PATENT-APPL-SN-350471
		NAS 1.71:LEW-13827-1			NASA-CASE-GSC-12883-1			US-PATENT-CLASS-422-103
		NASA-CASE-LEW-13827-1			US-PATENT-APPL-SN-604337			US-PATENT-CLASS-422-86
		US-PATENT-APPL-SN-486470			US-PATENT-CLASS-523-135			US-PATENT-CLASS-422-88
		US-PATENT-CLASS-136-225			US-PATENT-CLASS-524-388			US-PATENT-CLASS-436-2
		US-PATENT-CLASS-136-246			US-PATENT-CLASS-524-567			US-PATENT-CLASS-73-40.7
N85-21768*	c 44	US-PATENT-CLASS-357-30	N85-29082*	c 31	US-PATENT-4,518,722	N85-29214*	c 35	US-PATENT-CLASS-73-863.86
		US-PATENT-4,482,778			NASA-CASE-NPO-16257-1			US-PATENT-CLASS-73-864.52
		NAS 1.71:MFS-25637-1			US-PATENT-APPL-SN-588164			US-PATENT-4,515,751
		NASA-CASE-MFS-25637-1			US-PATENT-CLASS-62-3			NASA-CASE-MSC-25707-1
		US-PATENT-APPL-SN-375684			US-PATENT-4,507,928			US-PATENT-APPL-SN-359627
		US-PATENT-CLASS-290-1R			NASA-CASE-LAR-13181-1			US-PATENT-CLASS-126-263
		US-PATENT-CLASS-290-4R			US-PATENT-APPL-SN-507623			US-PATENT-CLASS-165-48R
		US-PATENT-CLASS-307-64			US-PATENT-CLASS-156-272.4			US-PATENT-CLASS-165-61
		US-PATENT-CLASS-307-66			US-PATENT-CLASS-156-273.9			US-PATENT-CLASS-165-64
		US-PATENT-CLASS-318-46			US-PATENT-CLASS-156-380.2			US-PATENT-CLASS-244-163
N85-21846*	c 46	US-PATENT-CLASS-318-729	N85-29083*	c 31	US-PATENT-219-10.43	N85-29264*	c 36	US-PATENT-CLASS-165-81
		US-PATENT-4,489,243			US-PATENT-CLASS-219-10.49			US-PATENT-CLASS-165-86
		NAS 1.71:NPO-15430-1			US-PATENT-CLASS-219-10.53			US-PATENT-4,513,810
		NASA-CASE-NPO-15430-1			US-PATENT-CLASS-219-10.77			NASA-CASE-NPO-16000-1
		US-PATENT-APPL-SN-322317			US-PATENT-4,521,659			
		US-PATENT-CLASS-343-352			NASA-CASE-NPO-15432-1			
		US-PATENT-CLASS-343-460			US-PATENT-APPL-SN-425204			

			US-PATENT-APPL-SN-384547				US-PATENT-APPL-SN-516217				US-PATENT-CLASS-148-33.2
			US-PATENT-CLASS-250-339				US-PATENT-APPL-SN-561434				US-PATENT-CLASS-156-DIG.65
			US-PATENT-CLASS-364-556				US-PATENT-CLASS-526-204				US-PATENT-CLASS-156-DIG.88
			US-PATENT-4,509,130				US-PATENT-CLASS-526-217				US-PATENT-CLASS-156-612
N85-29282*	c 37		NASA-CASE-NPO-15037-2				US-PATENT-CLASS-526-262				US-PATENT-CLASS-29-576E
			US-PATENT-APPL-SN-161257				US-PATENT-CLASS-528-314				US-PATENT-CLASS-29-576J
			US-PATENT-APPL-SN-431420				US-PATENT-CLASS-528-322				US-PATENT-CLASS-29-576W
			US-PATENT-CLASS-415-1				US-PATENT-4,495,339				US-PATENT-CLASS-29-578
			US-PATENT-CLASS-415-68	N85-30187*	c 33		NASA-CASE-NPO-16021-1				US-PATENT-CLASS-357-4
			US-PATENT-4,514,137				US-PATENT-APPL-SN-402205				US-PATENT-CLASS-357-50
N85-29283*	c 37		NASA-CASE-MS-C-18852-1				US-PATENT-CLASS-324-158R				US-PATENT-4,522,661
			US-PATENT-APPL-SN-392094				US-PATENT-CLASS-324-65R	N85-30923*	c 76		NASA-CASE-LAR-12893-1
			US-PATENT-CLASS-239-DIG.23				US-PATENT-4,516,071				US-PATENT-APPL-SN-364041
			US-PATENT-CLASS-239-288	N85-30281*	c 35		NASA-CASE-GSC-12851-1				US-PATENT-CLASS-204-1T
			US-PATENT-CLASS-239-322				US-PATENT-APPL-SN-459842				US-PATENT-CLASS-324-158D
			US-PATENT-CLASS-239-327				US-PATENT-CLASS-250-363S				US-PATENT-CLASS-324-71.5
			US-PATENT-CLASS-239-375				US-PATENT-CLASS-250-369				US-PATENT-4,511,838
			US-PATENT-CLASS-239-590				US-PATENT-4,521,688	N85-33187*	c 23		NASA-CASE-ARC-11243-2
			US-PATENT-CLASS-55-DIG.42	N85-30282*	c 35		NASA-CASE-LAR-12966-1				US-PATENT-APPL-SN-183707
			US-PATENT-4,519,545				US-PATENT-APPL-SN-414237				US-PATENT-CLASS-549-335
N85-29284*	c 37		NASA-CASE-MS-C-20148-1				US-PATENT-CLASS-356-351				US-PATENT-4,528,386
			US-PATENT-APPL-SN-636465				US-PATENT-CLASS-356-358	N85-33433*	c 34		NASA-CASE-LEW-14039-1
			US-PATENT-CLASS-251-325				US-PATENT-CLASS-373-657				US-PATENT-APPL-SN-580419
			US-PATENT-CLASS-251-349				US-PATENT-4,512,661				US-PATENT-CLASS-415-115
			US-PATENT-CLASS-251-353	N85-30305*	c 36		NASA-CASE-NPO-15980-1				US-PATENT-CLASS-416-97A
			US-PATENT-CLASS-277-135				US-PATENT-APPL-SN-385220				US-PATENT-4,529,358
			US-PATENT-CLASS-277-80				US-PATENT-CLASS-357-17	N85-33489*	c 37		NASA-CASE-LEW-13914-1
			US-PATENT-4,523,741				US-PATENT-CLASS-357-40				US-PATENT-APPL-SN-537615
N85-29285*	c 37		NASA-CASE-LAR-13009-1				US-PATENT-CLASS-357-46				US-PATENT-CLASS-315-3.5
			US-PATENT-APPL-SN-495380				US-PATENT-CLASS-372-38				US-PATENT-CLASS-315-5.38
			US-PATENT-CLASS-403-28				US-PATENT-CLASS-372-46				US-PATENT-CLASS-445-35
			US-PATENT-CLASS-403-408				US-PATENT-CLASS-372-50				US-PATENT-4,527,092
			US-PATENT-CLASS-411-368				US-PATENT-4,513,423	N85-33490*	c 37		NASA-CASE-LEW-13506-1
			US-PATENT-CLASS-411-378	N85-30333*	c 37		NASA-CASE-LEW-13717-1				US-PATENT-APPL-SN-596960
			US-PATENT-CLASS-411-426				US-PATENT-APPL-SN-463456				US-PATENT-CLASS-384-101
			US-PATENT-CLASS-411-501				US-PATENT-CLASS-310-77				US-PATENT-CLASS-384-99
			US-PATENT-CLASS-411-531				US-PATENT-CLASS-310-93				US-PATENT-4,527,910
			US-PATENT-4,512,699				US-PATENT-CLASS-318-611	N85-33701*	c 60		NASA-CASE-MFS-25319-1
N85-29286*	c 37		NASA-CASE-LAR-13040-1				US-PATENT-CLASS-335-100				US-PATENT-APPL-SN-437917
			US-PATENT-APPL-SN-547176				US-PATENT-4,517,505				US-PATENT-CLASS-364-723
			US-PATENT-CLASS-219-201	N85-30334*	c 37		NASA-CASE-MS-C-20080-1				US-PATENT-CLASS-364-853
			US-PATENT-CLASS-219-221				US-PATENT-APPL-SN-393584				US-PATENT-4,528,639
			US-PATENT-CLASS-219-285				US-PATENT-CLASS-403-15	N85-33826*	c 76		NASA-CASE-MS-C-20036-1
			US-PATENT-CLASS-414-217				US-PATENT-CLASS-403-16				US-PATENT-APPL-SN-569372
			US-PATENT-CLASS-73-863.11				US-PATENT-CLASS-403-322				US-PATENT-CLASS-204-192C
			US-PATENT-CLASS-73-864.81				US-PATENT-CLASS-89-1.57				US-PATENT-CLASS-204-192P
			US-PATENT-4,516,435				US-PATENT-4,512,678				US-PATENT-CLASS-350-342
N85-29693*	c 71		NASA-CASE-NPO-16147-1-CU	N85-30335*	c 37		NASA-CASE-LAR-12738-2				US-PATENT-CLASS-428-432
			US-PATENT-APPL-SN-559988				US-PATENT-APPL-SN-539230				US-PATENT-CLASS-428-698
			US-PATENT-CLASS-73-505				US-PATENT-CLASS-244-158-A				US-PATENT-CLASS-428-913
			US-PATENT-4,520,656				US-PATENT-CLASS-411-103				US-PATENT-4,522,469
N85-29749*	c 74		NASA-CASE-NPO-15464-1				US-PATENT-CLASS-411-108	N85-34280*	c 27		NASA-CASE-ARC-11522-2
			US-PATENT-APPL-SN-342828				US-PATENT-CLASS-52-127.7				US-PATENT-APPL-SN-641143
			US-PATENT-CLASS-156-166				US-PATENT-CLASS-52-506				US-PATENT-CLASS-528-168
			US-PATENT-CLASS-350-320				US-PATENT-CLASS-52-745				US-PATENT-CLASS-528-229
			US-PATENT-CLASS-350-96.15				US-PATENT-4,520,601				US-PATENT-CLASS-528-352
			US-PATENT-4,523,810	N85-30336*	c 37		NASA-CASE-LAR-12864-1				US-PATENT-CLASS-528-353
N85-29750*	c 74		NASA-CASE-MS-C-18417-1				US-PATENT-APPL-SN-387646				US-PATENT-4,536,565
			US-PATENT-APPL-SN-523559				US-PATENT-CLASS-403-102	N85-34281*	c 27		NASA-CASE-ARC-11424-1
			US-PATENT-CLASS-350-312				US-PATENT-CLASS-403-322				US-PATENT-APPL-SN-598777
			US-PATENT-CLASS-350-319				US-PATENT-CLASS-403-348				US-PATENT-CLASS-428-260
			US-PATENT-CLASS-350-321				US-PATENT-4,518,277				US-PATENT-CLASS-428-408
			US-PATENT-CLASS-52-171	N85-30474*	c 44		NASA-CASE-NPO-15419-2				US-PATENT-CLASS-428-413
			US-PATENT-4,521,077				US-PATENT-APPL-SN-259208				US-PATENT-CLASS-525-107
N85-29800*	c 76		NASA-CASE-NPO-15772-1				US-PATENT-APPL-SN-542557				US-PATENT-CLASS-525-113
			US-PATENT-APPL-SN-392944				US-PATENT-CLASS-126-DIG.1				US-PATENT-CLASS-525-119
			US-PATENT-CLASS-156-623Q				US-PATENT-CLASS-126-400				US-PATENT-CLASS-525-186
			US-PATENT-CLASS-23-295R				US-PATENT-CLASS-126-415				US-PATENT-CLASS-525-229
			US-PATENT-4,512,846				US-PATENT-CLASS-126-419				US-PATENT-CLASS-528-113
N85-29947*	c 05		NASA-CASE-ARC-11444-1				US-PATENT-CLASS-126-900				US-PATENT-CLASS-528-117
			US-PATENT-APPL-SN-489675				US-PATENT-4,512,332				US-PATENT-CLASS-528-407
			US-PATENT-CLASS-416-145				US-PATENT-4,512,332				US-PATENT-CLASS-528-94
			US-PATENT-CLASS-416-23	N85-30475*	c 44		NASA-CASE-NPO-16155-1				US-PATENT-4,537,834
			US-PATENT-CLASS-416-500				US-PATENT-APPL-SN-578390	N85-34282*	c 27		NASA-CASE-LAR-13226-1
			US-PATENT-4,514,143				US-PATENT-CLASS-136-255				US-PATENT-APPL-SN-548583
N85-29991*	c 18		NASA-CASE-MFS-25837-1				US-PATENT-CLASS-136-256				US-PATENT-CLASS-523-454
			US-PATENT-APPL-SN-401282				US-PATENT-CLASS-136-261				US-PATENT-CLASS-523-458
			US-PATENT-CLASS-244-118.1				US-PATENT-CLASS-357-30				US-PATENT-CLASS-528-106
			US-PATENT-CLASS-244-158R				US-PATENT-4,524,237				US-PATENT-CLASS-528-229
			US-PATENT-CLASS-248-503	N85-30618*	c 52		NASA-CASE-LAR-13028-1				US-PATENT-CLASS-528-407
			US-PATENT-CLASS-248-555				US-PATENT-APPL-SN-582492				US-PATENT-CLASS-528-92
			US-PATENT-CLASS-403-143				US-PATENT-CLASS-128-736				US-PATENT-4,510,277
			US-PATENT-CLASS-403-56				US-PATENT-CLASS-374-117	N85-34327*	c 32		NASA-CASE-NPO-15704-1
			US-PATENT-CLASS-403-76				US-PATENT-CLASS-374-160				US-PATENT-APPL-SN-359382
			US-PATENT-CLASS-403-90				US-PATENT-4,513,750				US-PATENT-CLASS-343-17.2-PC
			US-PATENT-CLASS-410-79	N85-30765*	c 71		NASA-CASE-NPO-15559-1				US-PATENT-CLASS-343-5-CM
			US-PATENT-CLASS-410-90				US-PATENT-APPL-SN-379601				US-PATENT-CLASS-343-5-W
			US-PATENT-4,508,296				US-PATENT-CLASS-181-0.5				US-PATENT-4,509,048
N85-30027*	c 24		NASA-CASE-LEW-13828-1				US-PATENT-CLASS-209-422	N85-34333*	c 33		NASA-CASE-NPO-15696-1
			US-PATENT-APPL-SN-560035				US-PATENT-CLASS-209-638				US-PATENT-APPL-SN-387647
			US-PATENT-CLASS-219-76.14				US-PATENT-4,523,682				US-PATENT-CLASS-364-571
			US-PATENT-CLASS-427-178	N85-30922*	c 76		NASA-CASE-NPO-15813-1				US-PATENT-CLASS-364-578
			US-PATENT-CLASS-427-37				US-PATENT-APPL-SN-507624				US-PATENT-CLASS-372-32
			US-PATENT-CLASS-427-422				US-PATENT-CLASS-148-DIG.26				US-PATENT-4,509,132
			US-PATENT-4,518,625				US-PATENT-CLASS-148-174	N85-34373*	c 35		NAS 1.71:NPO-15493-2
N85-30039*	c 25		NASA-CASE-LEW-13770-6				US-PATENT-CLASS-148-175				NAS 1.71:NPO-15494-2

				US-PATENT-APPL-SN-563890				US-PATENT-APPL-SN-633179				US-PATENT-CLASS-357-59
				US-PATENT-CLASS-324-65-P				US-PATENT-CLASS-73-3				US-PATENT-4,531,143
				US-PATENT-CLASS-73-75				US-PATENT-CLASS-73-861-07		N86-19580*	c 35	NASA-CASE-GSC-12795-1
				US-PATENT-4,532,797				US-PATENT-4,538,446				US-PATENT-APPL-SN-462508
N85-34374*	c 35			NASA-CASE-ARC-11503-1		N86-19304*	c 04	NASA-CASE-KSC-11155-1				US-PATENT-CLASS-374-115
				US-PATENT-APPL-SN-582643				US-PATENT-APPL-SN-425201				US-PATENT-CLASS-374-120
				US-PATENT-CLASS-250-374				US-PATENT-CLASS-343-6-8-R				US-PATENT-CLASS-374-163
				US-PATENT-CLASS-250-379				US-PATENT-4,540,986				US-PATENT-4,556,327
N85-34375*	c 35			US-PATENT-4,538,066		N86-19310*	c 05	NASA-CASE-LAR-13155-1		N86-19581*	c 35	NASA-CASE-MSC-20250-1
				NASA-CASE-LAR-13243-1				US-PATENT-APPL-SN-469371				US-PATENT-APPL-SN-491113
				US-PATENT-APPL-SN-590923				US-PATENT-CLASS-244-158-A				US-PATENT-CLASS-73-862.01
				US-PATENT-CLASS-73-831				US-PATENT-CLASS-244-158-R				US-PATENT-CLASS-73-862.54
				US-PATENT-CLASS-73-856				US-PATENT-CLASS-244-172				US-PATENT-4,557,149
				US-PATENT-4,535,636		N86-19376*	c 23	US-PATENT-4,557,444		N86-19603*	c 37	NASA-CASE-MFS-25949-1
N85-34401*	c 37			NASA-CASE-MFS-25907-1				NASA-CASE-ARC-11428-1				US-PATENT-APPL-SN-538063
				US-PATENT-APPL-SN-510137				US-PATENT-APPL-SN-499126				US-PATENT-CLASS-414-730
				US-PATENT-CLASS-244-118.1				US-PATENT-CLASS-260-927-N				US-PATENT-CLASS-901-31
				US-PATENT-CLASS-244-158R				US-PATENT-CLASS-428-410				US-PATENT-CLASS-901-50
				US-PATENT-CLASS-248-550				US-PATENT-CLASS-528-310				US-PATENT-4,545,723
				US-PATENT-CLASS-267-150				US-PATENT-CLASS-548-413		N86-19604*	c 37	NASA-CASE-NPO-15960-1
				US-PATENT-CLASS-267-8R				US-PATENT-CLASS-564-113				US-PATENT-APPL-SN-527613
				US-PATENT-CLASS-410-156				US-PATENT-4,550,177				US-PATENT-CLASS-337-140
				US-PATENT-4,536,114		N86-19380*	c 24	NASA-CASE-ARC-11427-1				US-PATENT-CLASS-60-527
N85-34403*	c 37			NASA-CASE-MSC-20127-2				US-PATENT-APPL-SN-493865				US-PATENT-CLASS-60-528
				US-PATENT-APPL-SN-646044				US-PATENT-CLASS-523-433				US-PATENT-4,553,393
				US-PATENT-CLASS-137-116.3				US-PATENT-CLASS-523-445		N86-19605*	c 37	NASA-CASE-NPO-16038-1
				US-PATENT-CLASS-137-99				US-PATENT-CLASS-523-66468				US-PATENT-APPL-SN-469864
				US-PATENT-4,509,548				US-PATENT-CLASS-525-423				US-PATENT-CLASS-16-294
N85-34441*	c 44			NASA-CASE-LEW-14077-1				US-PATENT-CLASS-525-527				US-PATENT-CLASS-403-113
				US-PATENT-APPL-SN-580573				US-PATENT-CLASS-528-102				US-PATENT-CLASS-403-120
				US-PATENT-CLASS-136-253				US-PATENT-CLASS-528-103				US-PATENT-4,558,967
				US-PATENT-4,528,417		N86-19413*	c 25	US-PATENT-4,550,129		N86-19606*	c 37	NASA-CASE-LEW-13670-1
N85-34629*	c 74			NASA-CASE-NPO-15865-1				NASA-CASE-MSC-20622-1				US-PATENT-APPL-SN-603374
				US-PATENT-APPL-SN-425202				US-PATENT-APPL-SN-571616				US-PATENT-CLASS-384-103
				US-PATENT-CLASS-343-13-R				US-PATENT-CLASS-374-46				US-PATENT-CLASS-384-106
				US-PATENT-CLASS-356-5				US-PATENT-CLASS-374-8				US-PATENT-4,552,466
				US-PATENT-4,533,242				US-PATENT-CLASS-422-78		N86-19711*	c 43	NASA-CASE-NPO-15939-1
N85-34722*	c 85			NASA-CASE-NPO-15949-1				US-PATENT-CLASS-436-155				US-PATENT-APPL-SN-465365
				US-PATENT-APPL-SN-457990				US-PATENT-CLASS-73-7				US-PATENT-CLASS-343-5-CD
				US-PATENT-CLASS-414-288				US-PATENT-4,561,784				US-PATENT-CLASS-343-5-CM
				US-PATENT-CLASS-414-328		N86-19455*	c 27	NASA-CASE-ARC-11405-2				US-PATENT-CLASS-343-5-VQ
				US-PATENT-CLASS-414-373				US-PATENT-APPL-SN-514117				US-PATENT-CLASS-367-88
				US-PATENT-CLASS-414-786				US-PATENT-CLASS-260-245.75				US-PATENT-4,551,724
				US-PATENT-4,537,554				US-PATENT-CLASS-260-245.9		N86-19721*	c 44	NASA-CASE-LEW-14028-1
N85-35194*	c 07			NASA-CASE-LAR-13019-1				US-PATENT-CLASS-528-327				US-PATENT-APPL-SN-642310
				US-PATENT-APPL-SN-576308				US-PATENT-4,522,755				US-PATENT-CLASS-429-109
				US-PATENT-CLASS-244-199		N86-19456*	c 27	NASA-CASE-LAR-13135-1				US-PATENT-CLASS-429-15
				US-PATENT-CLASS-244-55				US-PATENT-APPL-SN-649328				US-PATENT-CLASS-429-19
				US-PATENT-4,533,101				US-PATENT-CLASS-525-432				US-PATENT-CLASS-429-51
N85-35195*	c 07			NASA-CASE-LEW-13562-2				US-PATENT-CLASS-525-436				US-PATENT-4,543,302
				US-PATENT-APPL-SN-500651				US-PATENT-CLASS-528-179		N86-19885* #	c 52	NAS 1.71:GSC-12944-1
				US-PATENT-CLASS-239-402.5				US-PATENT-CLASS-528-182				NASA-CASE-GSC-12944-1
				US-PATENT-CLASS-60-39.23				US-PATENT-CLASS-528-185				US-PATENT-APPL-SN-793006
				US-PATENT-CLASS-60-748				US-PATENT-CLASS-528-352		N86-20124*	c 74	NASA-CASE-MFS-25942-1
				US-PATENT-4,534,166				US-PATENT-CLASS-528-353				US-PATENT-APPL-SN-671613
N85-35200*	c 08			NASA-CASE-LAR-13076-1				US-PATENT-4,552,931				US-PATENT-CLASS-378-43
				US-PATENT-APPL-SN-532342		N86-19457*	c 27	NASA-CASE-LEW-13864-1				US-PATENT-CLASS-378-85
				US-PATENT-CLASS-244-113				US-PATENT-APPL-SN-434087				US-PATENT-4,562,583
				US-PATENT-CLASS-244-139				US-PATENT-CLASS-528-229		N86-20125*	c 74	NASA-CASE-ARC-11502-1
				US-PATENT-CLASS-244-75-R				US-PATENT-CLASS-528-322				US-PATENT-APPL-SN-594134
				US-PATENT-4,538,778				US-PATENT-CLASS-528-342				US-PATENT-CLASS-350-276-R
N85-35227*	c 23			NASA-CASE-NPO-16203-1				US-PATENT-CLASS-528-345				US-PATENT-CLASS-350-319
				US-PATENT-APPL-SN-493179				US-PATENT-4,560,742				US-PATENT-CLASS-350-448
				US-PATENT-CLASS-435-160		N86-19458*	c 27	NASA-CASE-LEW-14072-1				US-PATENT-CLASS-350-537
				US-PATENT-CLASS-435-842				US-PATENT-APPL-SN-649330				US-PATENT-CLASS-350-580
				US-PATENT-4,539,293				US-PATENT-CLASS-204-192-C				US-PATENT-4,542,963
N85-35233*	c 24			NASA-CASE-LEW-14057-1				US-PATENT-CLASS-204-192-D		N86-20126*	c 74	NASA-CASE-MSC-20418-1
				US-PATENT-APPL-SN-375784				US-PATENT-CLASS-204-192-R				US-PATENT-APPL-SN-438446
				US-PATENT-APPL-SN-523297				US-PATENT-CLASS-204/298				US-PATENT-CLASS-378-58
				US-PATENT-APPL-SN-640712				US-PATENT-CLASS-427-248.1				US-PATENT-CLASS-378-59
				US-PATENT-CLASS-428-633				US-PATENT-CLASS-427-38				US-PATENT-4,542,520
				US-PATENT-CLASS-428-656				US-PATENT-CLASS-428-446		N86-20150*	c 76	NASA-CASE-GSC-12816-1
				US-PATENT-CLASS-428-678				US-PATENT-CLASS-428-473.5				US-PATENT-APPL-SN-507625
				US-PATENT-CLASS-428-679				US-PATENT-CLASS-428-702				US-PATENT-CLASS-136-255
				US-PATENT-CLASS-428-680				US-PATENT-4,560,577				US-PATENT-CLASS-136-262
				US-PATENT-CLASS-428-681		N86-19479*	c 31	NASA-CASE-LAR-13098-1				US-PATENT-CLASS-29-572
				US-PATENT-CLASS-428-682				US-PATENT-APPL-SN-530339				US-PATENT-CLASS-357-15
				US-PATENT-4,485,151				US-PATENT-CLASS-16-242				US-PATENT-CLASS-357-30
				US-PATENT-4,535,033				US-PATENT-CLASS-16-390				US-PATENT-4,543,442
N85-35253*	c 25			NASA-CASE-NPO-15924-1				US-PATENT-CLASS-403-171		N86-20389*	c 07	NASA-CASE-LEW-13142-2
				US-PATENT-APPL-SN-526768				US-PATENT-CLASS-403-64				US-PATENT-APPL-SN-413101
				US-PATENT-CLASS-201-17				US-PATENT-CLASS-52-632				US-PATENT-CLASS-60-39.02
				US-PATENT-CLASS-44-1-SR				US-PATENT-CLASS-52-637				US-PATENT-CLASS-60-39.07
				US-PATENT-4,511,362				US-PATENT-CLASS-52-646				US-PATENT-CLASS-60-736
N85-35267*	c 26			NASA-CASE-LEW-13923-1				US-PATENT-CLASS-52-648				US-PATENT-4,550,561
				US-PATENT-APPL-SN-571617				US-PATENT-4,557,097		N86-20469*	c 18	NASA-CASE-MFS-25429-1
				US-PATENT-CLASS-427-191		N86-19515*	c 33	NASA-CASE-GSC-12555-1				US-PATENT-APPL-SN-596959
				US-PATENT-CLASS-427-228				US-PATENT-APPL-SN-153240				US-PATENT-CLASS-124-56
				US-PATENT-CLASS-427-294				US-PATENT-CLASS-331-116-FE				US-PATENT-CLASS-244-158-R
				US-PATENT-CLASS-427-376.2				US-PATENT-CLASS-331-117-FE				US-PATENT-CLASS-403-328
				US-PATENT-CLASS-427-380				US-PATENT-4,553,110				US-PATENT-4,554,905
				US-PATENT-CLASS-427-397.7		N86-19516*	c 33	NASA-CASE-NPO-16112-1		N86-20560*	c 27	NASA-CASE-ARC-11429-1-CU
				US-PATENT-CLASS-428-698				US-PATENT-APPL-SN-542232				US-PATENT-APPL-SN-553339
				US-PATENT-CLASS-428-704				US-PATENT-CLASS-357-23.6				US-PATENT-CLASS-524-548
				US-PATENT-4,535,035				US-PATENT-CLASS-357-30				US-PATENT-CLASS-525-186
N86-12547*	c 34			NASA-CASE-LAR-13220-1				US-PATENT-CLASS-357-58				US-PATENT-CLASS-526-262

			US-PATENT-CLASS-526-265				NASA-CASE-NPO-16233-1				US-PATENT-CLASS-208-11
			US-PATENT-4,526,925				US-PATENT-APPL-SN-737018				US-PATENT-CLASS-48-197-R
N86-20561*	c 27		NASA-CASE-LAR-13384-1	N86-20841*	c 39		NASA-CASE-MFS-25910-1				US-PATENT-CLASS-8-DIG.9
			US-PATENT-APPL-SN-663840				US-PATENT-APPL-SN-548582	N86-25752*	c 35		US-PATENT-4,582,590
			US-PATENT-CLASS-156-307				US-PATENT-CLASS-73-150-A				NASA-CASE-MFS-28030-1
			US-PATENT-CLASS-156-309.9				US-PATENT-CLASS-73-827				US-PATENT-APPL-SN-719799
			US-PATENT-CLASS-156-331.5				US-PATENT-4,548,083				US-PATENT-CLASS-73-861.58
			US-PATENT-CLASS-256-308.2	N86-21154*	c 60		NASA-CASE-LAR-12968-1	N86-25753*	c 35		US-PATENT-4,572,004
			US-PATENT-CLASS-427-385.5				US-PATENT-APPL-SN-523560				NASA-CASE-NPO-16271-1
			US-PATENT-CLASS-427-388.1				US-PATENT-CLASS-364-728				US-PATENT-APPL-SN-556514
			US-PATENT-CLASS-428-458				US-PATENT-4,545,025				US-PATENT-CLASS-356-311
			US-PATENT-CLASS-428-473.5	N86-21276*	c 71		NASA-CASE-LAR-13153-1				US-PATENT-CLASS-356-318
			US-PATENT-4,543,295				US-PATENT-APPL-SN-590921				US-PATENT-4,585,344
N86-20647*	c 32		NASA-CASE-MFS-25750-1				US-PATENT-CLASS-72-324	N86-25789*	c 37		NASA-CASE-LAR-13117-1
			US-PATENT-APPL-SN-530185				US-PATENT-CLASS-72-341				US-PATENT-APPL-SN-556512
			US-PATENT-CLASS-250-225				US-PATENT-CLASS-73-1-DV				US-PATENT-CLASS-244-159
			US-PATENT-CLASS-350-354				US-PATENT-4,558,585				US-PATENT-CLASS-244-173
			US-PATENT-CLASS-358-168	N86-21348*	c 74		NASA-CASE-MFS-25752-1				US-PATENT-CLASS-343-881
			US-PATENT-4,546,248				US-PATENT-APPL-SN-473499				US-PATENT-CLASS-343-882
N86-20668*	c 33		NASA-CASE-GSC-12804-1				US-PATENT-CLASS-350-335				US-PATENT-CLASS-52-111
			US-PATENT-APPL-SN-529803				US-PATENT-CLASS-356-345				US-PATENT-CLASS-52-645
			US-PATENT-CLASS-331-1-A				US-PATENT-CLASS-356-4.5				US-PATENT-CLASS-52-648
			US-PATENT-CLASS-331-2				US-PATENT-CLASS-358-105				US-PATENT-4,578,920
			US-PATENT-4,550,292				US-PATENT-CLASS-358-125	N86-25790*	c 37		NASA-CASE-LEW-14170-1
N86-20669*	c 33		NASA-CASE-GSC-12899-1				US-PATENT-CLASS-358-88				US-PATENT-APPL-SN-672224
			US-PATENT-APPL-SN-613140				US-PATENT-CLASS-364-822				US-PATENT-CLASS-227-27
			US-PATENT-CLASS-191-12.2-R				US-PATENT-CLASS-382-42				US-PATENT-CLASS-227-28
			US-PATENT-CLASS-242-107				US-PATENT-4,556,986				US-PATENT-4,580,791
			US-PATENT-CLASS-242-54-R	N86-21582*	c 23		NASA-CASE-ARC-11402-3	N86-25791*	c 37		NASA-CASE-LAR-13169-1
			US-PATENT-4,542,858				US-PATENT-APPL-SN-741405				US-PATENT-APPL-SN-606431
N86-20670*	c 33		NASA-CASE-MFS-25868-1				US-PATENT-CLASS-564-243				US-PATENT-CLASS-343-DIG.2
			US-PATENT-APPL-SN-638584				US-PATENT-4,567,301				US-PATENT-CLASS-343-883
			US-PATENT-CLASS-330-258	N86-21590*	c 24		NASA-CASE-ARC-11538-1SB				US-PATENT-CLASS-52-110
			US-PATENT-CLASS-330-261				US-PATENT-APPL-SN-719796				US-PATENT-4,587,526
			US-PATENT-CLASS-330-311				US-PATENT-CLASS-526-262	N86-25874*	c 44		NASA-CASE-LEW-13822-1
			US-PATENT-4,551,687				US-PATENT-4,568,733				US-PATENT-APPL-SN-625077
N86-20671*	c 33		NASA-CASE-LEW-13773-2	N86-21675*	c 27		NASA-CASE-LAR-12931-2				US-PATENT-CLASS-42-101
			US-PATENT-APPL-SN-638541				US-PATENT-APPL-SN-527914				US-PATENT-CLASS-429-27
			US-PATENT-CLASS-244-134-D				US-PATENT-CLASS-260-544-D				US-PATENT-CLASS-429-57
			US-PATENT-CLASS-310-324				US-PATENT-CLASS-556-436				US-PATENT-4,584,249
			US-PATENT-CLASS-39-25.35				US-PATENT-CLASS-585-24	N86-26190*	c 74		NASA-CASE-GSC-12849-1
			US-PATENT-4,545,553				US-PATENT-4,565,886				US-PATENT-APPL-SN-556481
N86-20672*	c 33		NASA-CASE-LEW-13922-1	N86-21718*	c 31		NASA-CASE-MFS-25905-2				US-PATENT-CLASS-250-228
			US-PATENT-APPL-SN-537614				US-PATENT-APPL-SN-601130				US-PATENT-CLASS-356-236
			US-PATENT-CLASS-307-264				US-PATENT-CLASS-65-1				US-PATENT-CLASS-356-244
			US-PATENT-CLASS-307-270				US-PATENT-CLASS-65-11.1				US-PATENT-CLASS-356-446
			US-PATENT-CLASS-307-566				US-PATENT-CLASS-65-12				US-PATENT-CLASS-56-73
			US-PATENT-CLASS-307-570				US-PATENT-CLASS-65-2				US-PATENT-4,583,860
			US-PATENT-CLASS-307-572				US-PATENT-4,565,557	N86-26352*	c 16		NASA-CASE-MFS-25966-1
			US-PATENT-4,547,686	N86-21742*	c 33		NASA-CASE-LEW-13981-2				US-PATENT-APPL-SN-643522
N86-20680* #	c 33		NAS 1.71:LEW-14127-1				US-PATENT-APPL-SN-714051				US-PATENT-CLASS-244-161
			NASA-CASE-LEW-14127-1				US-PATENT-CLASS-315-3.5				US-PATENT-4,582,277
			US-PATENT-APPL-SN-748536				US-PATENT-CLASS-315-3.6	N86-26368*	c 20		NASA-CASE-MFS-25946-1
N86-20681* #	c 33		NAS 1.71:NPO-16420-1				US-PATENT-CLASS-315-39.3				US-PATENT-APPL-SN-561432
			NASA-CASE-NPO-16420-1				US-PATENT-CLASS-330-43				US-PATENT-CLASS-244-158.R
			US-PATENT-APPL-SN-727838				US-PATENT-4,564,787				US-PATENT-CLASS-244-169
N86-20750*	c 35		NASA-CASE-MFS-25963-1	N86-21850*	c 37		NASA-CASE-MFS-25807-2				US-PATENT-CLASS-60-203.1
			US-PATENT-APPL-SN-571614				US-PATENT-APPL-SN-685607				US-PATENT-CLASS-60-39.465
			US-PATENT-CLASS-165-30				US-PATENT-CLASS-219-124.34				US-PATENT-4,585,191
			US-PATENT-CLASS-165-61				US-PATENT-CLASS-318-577	N86-26595*	c 35		NASA-CASE-MSC-20653-1
			US-PATENT-CLASS-165-65				US-PATENT-CLASS-358-101				US-PATENT-APPL-SN-659474
			US-PATENT-CLASS-219-390				US-PATENT-CLASS-901-42				US-PATENT-CLASS-73-863.21
			US-PATENT-CLASS-219-395				US-PATENT-CLASS-901-47				US-PATENT-CLASS-73-863.31
			US-PATENT-CLASS-219-396				US-PATENT-4,567,348				US-PATENT-CLASS-73-863.72
			US-PATENT-CLASS-432-18	N86-22112*	c 54		NASA-CASE-LAR-12259-1				US-PATENT-CLASS-73-864.34
			US-PATENT-4,544,025				US-PATENT-APPL-SN-280152				US-PATENT-4,584,887
N86-20751*	c 35		NASA-CASE-ARC-11422-1				US-PATENT-CLASS-128-80-E	N86-26598* #	c 35		NAS 1.71:MFS-26002-1-CU
			US-PATENT-APPL-SN-523991				US-PATENT-4,566,447				NASA-CASE-MFS-26002-1-CU
			US-PATENT-CLASS-211-126	N86-22459* #	c 89		NAS 1.71:MFS-28013-1				US-PATENT-APPL-SN-765991
			US-PATENT-CLASS-211-74				NASA-CASE-MFS-28013-1	N86-27270*	c 04		NASA-CASE-NPO-16171-1CU
			US-PATENT-4,544,068				US-PATENT-APPL-SN-765979				US-PATENT-APPL-SN-551536
N86-20752*	c 35		NASA-CASE-NPO-16142-1-CU	N86-24224* #	c 60		NAS 1.71:NPO-16464-1CU				US-PATENT-CLASS-343-357
			US-PATENT-APPL-SN-561433				NASA-CASE-NPO-16464-1CU				US-PATENT-CLASS-343-418
			US-PATENT-CLASS-73-505				US-PATENT-APPL-SN-815099				US-PATENT-4,578,678
			US-PATENT-4,549,435	N86-24729*	c 18		NASA-CASE-MSC-20676-1	N86-27280*	c 06		NASA-CASE-LAR-12518-1
N86-20756* #	c 35		NAS 1.71:MSC-20783-1				US-PATENT-APPL-SN-587764				US-PATENT-APPL-SN-578388
			NASA-CASE-MSC-20783-1				US-PATENT-CLASS-244-159				US-PATENT-CLASS-244-181
			US-PATENT-APPL-SN-738931				US-PATENT-4,579,302				US-PATENT-CLASS-340-968
N86-20788*	c 37		NASA-CASE-MFS-25842-2	N86-24841* #	c 27		NAS 1.71:LAR-13292-1				US-PATENT-CLASS-364-433
			US-PATENT-APPL-SN-692875				NASA-CASE-LAR-13292-1				US-PATENT-CLASS-364-435
			US-PATENT-CLASS-277-53				US-PATENT-APPL-SN-834978				US-PATENT-CLASS-73-178T
			US-PATENT-CLASS-415-174	N86-25269* #	c 76		NAS 1.71:NPO-16584-1-CU				US-PATENT-4,586,140
			US-PATENT-4,545,586				NASA-CASE-NPO-16584-1-CU	N86-27288*	c 08		NASA-CASE-ARC-11372-1
N86-20789*	c 37		NASA-CASE-MFS-25906-1				US-PATENT-APPL-SN-802769				US-PATENT-APPL-SN-415878
			US-PATENT-APPL-SN-537757	N86-25416*	c 24		NASA-CASE-ARC-11421-3				US-PATENT-CLASS-200-157
			US-PATENT-CLASS-212-230				US-PATENT-APPL-SN-771538				US-PATENT-CLASS-244-234
			US-PATENT-CLASS-414-4				US-PATENT-CLASS-428-473.5				US-PATENT-CLASS-250-211K
			US-PATENT-CLASS-414-718				US-PATENT-CLASS-428-474.4				US-PATENT-CLASS-318-584
			US-PATENT-CLASS-414-753				US-PATENT-CLASS-428-477.7				US-PATENT-CLASS-318-640
			US-PATENT-CLASS-901-25				US-PATENT-CLASS-528-170				US-PATENT-4,584,510
			US-PATENT-CLASS-901-31				US-PATENT-CLASS-528-220	N86-27431*	c 25		NASA-CASE-MSC-20206-1
			US-PATENT-4,547,121				US-PATENT-CLASS-528-321				US-PATENT-APPL-SN-478129
N86-20797* #	c 37		NAS 1.71:ARC-11349-1				US-PATENT-CLASS-528-322				US-PATENT-CLASS-141-198
			NASA-CASE-ARC-11349-1				US-PATENT-4,579-782				US-PATENT-CLASS-200-61.05
			US-PATENT-APPL-SN-746160	N86-25428*	c 25		NASA-CASE-NPO-16392-1				US-PATENT-CLASS-340-605
N86-20801* #	c 37		NAS 1.71:NPO-16233-1				US-PATENT-APPL-SN-633363				US-PATENT-4,591,838

N86-27450*	c 27	NASA-CASE-LAR-13316-1 US-PATENT-APPL-SN-613139 US-PATENT-CLASS-260-544P US-PATENT-CLASS-525-534 US-PATENT-CLASS-525-535 US-PATENT-CLASS-526-285 US-PATENT-CLASS-528-171 US-PATENT-CLASS-528-174 US-PATENT-CLASS-528-176 US-PATENT-4,587,312	N86-29039*	c 27	NASA-CASE-LAR-13353-1 US-PATENT-APPL-SN-643524 US-PATENT-CLASS-264-204 US-PATENT-CLASS-264-216 US-PATENT-CLASS-264-236 US-PATENT-CLASS-264-347 US-PATENT-CLASS-528-183 US-PATENT-CLASS-528-222 US-PATENT-CLASS-528-341 US-PATENT-4,595,548	US-PATENT-CLASS-219-121LE US-PATENT-CLASS-219-121LY US-PATENT-CLASS-264-5 US-PATENT-CLASS-425-6 US-PATENT-CLASS-65-142 US-PATENT-CLASS-65-21.2 US-PATENT-CLASS-73-505 US-PATENT-4,553,917		
N86-27451*	c 27	NASA-CASE-ARC-11427-2 US-PATENT-APPL-SN-765980 US-PATENT-CLASS-523-434 US-PATENT-CLASS-523-445 US-PATENT-CLASS-523-461 US-PATENT-CLASS-525-108 US-PATENT-CLASS-525-115 US-PATENT-CLASS-525-119 US-PATENT-CLASS-525-122 US-PATENT-4,588,778	N86-29055*	c 31	NASA-CASE-MFS-25825-1 US-PATENT-APPL-SN-657309 US-PATENT-CLASS-318-605 US-PATENT-CLASS-318-636 US-PATENT-CLASS-318-661 US-PATENT-CLASS-340-347CC US-PATENT-CLASS-340-347SY US-PATENT-4,594,540	N86-32568* #	c 27	NASA-CASE-ARC-11512-2 US-PATENT-APPL-SN-641153 US-PATENT-CLASS-528-336 US-PATENT-CLASS-528-337 US-PATENT-CLASS-528-340 US-PATENT-CLASS-528-347 US-PATENT-CLASS-564-15 US-PATENT-CLASS-568-14 US-PATENT-4,602,081
N86-27513*	c 32	NASA-CASE-KSC-11285-1 US-PATENT-APPL-SN-655601 US-PATENT-CLASS-179-18BC US-PATENT-CLASS-340-347DD US-PATENT-CLASS-365-768 US-PATENT-4,588,986	N86-29174*	c 35	NASA-CASE-LAR-13254-1CU US-PATENT-APPL-SN-668432 US-PATENT-CLASS-261-78A US-PATENT-CLASS-55-255 US-PATENT-CLASS-55-259 US-PATENT-CLASS-55-521 US-PATENT-CLASS-55-528 US-PATENT-4,595,399	N86-32569*	c 27	NASA-CASE-LEW-14072-2 US-PATENT-APPL-SN-761235 US-PATENT-CLASS-204-192C US-PATENT-CLASS-204-192D US-PATENT-CLASS-204-298 US-PATENT-4,604,181
N86-27593*	c 34	NASA-CASE-MSC-20812-1 US-PATENT-APPL-SN-616002 US-PATENT-CLASS-122-366 US-PATENT-CLASS-165-104.14 US-PATENT-CLASS-165-104.26 US-PATENT-CLASS-165-41 US-PATENT-4,583,587	N86-29204*	c 36	NAS 1.71:LAR-13256-1 NASA-CASE-LAR-13256-1 US-PATENT-APPL-SN-745973 US-PATENT-CLASS-372-79 US-PATENT-4,594,720	N86-32587*	c 31	NASA-CASE-LEW-14130-1 US-PATENT-APPL-SN-659475 US-PATENT-CLASS-204-192C US-PATENT-CLASS-204-192D US-PATENT-CLASS-204-298 US-PATENT-CLASS-313-106 US-PATENT-CLASS-313-107 US-PATENT-CLASS-315-5.38 US-PATENT-CLASS-427-39 US-PATENT-4,607,193
N86-27629*	c 37	NASA-CASE-ARC-11525-1 US-PATENT-APPL-SN-681041 US-PATENT-CLASS-318-48 US-PATENT-CLASS-318-632 US-PATENT-CLASS-318-663 US-PATENT-CLASS-318-8 US-PATENT-4,591,772	N86-29507* #	c 54	NASA-CASE-ARC-11534-1 US-PATENT-APPL-SN-642602 US-PATENT-CLASS-138-120 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-168 US-PATENT-CLASS-285-184 US-PATENT-CLASS-285-227 US-PATENT-CLASS-403-164 US-PATENT-4,598,428	N86-32589* #	c 31	NAS 1.71:MFS-28153-1 NASA-CASE-MFS-28153-1 US-PATENT-APPL-SN-875891
N86-27630*	c 37	NASA-CASE-LAR-13250-1 US-PATENT-APPL-SN-573162 US-PATENT-CLASS-403-312 US-PATENT-CLASS-403-388 US-PATENT-CLASS-403-408.1 US-PATENT-4,579,475	N86-29650* #	c 74	NASA-CASE-GSC-12911-1 US-PATENT-APPL-SN-606426 US-PATENT-CLASS-350-315 US-PATENT-CLASS-350-318 US-PATENT-CLASS-356-402 US-PATENT-CLASS-356-419 US-PATENT-4,599,001	N86-32624*	c 33	NASA-CASE-GSC-12958-1 US-PATENT-APPL-SN-727035 US-PATENT-CLASS-331-108D US-PATENT-CLASS-331-116R US-PATENT-CLASS-331-66 US-PATENT-CLASS-374-183 US-PATENT-4,603,306
N86-27706*	c 44	NASA-CASE-NPO-16236-1 US-PATENT-APPL-SN-582495 US-PATENT-CLASS-126-418 US-PATENT-CLASS-126-419 US-PATENT-CLASS-126-438 US-PATENT-4,586,487	N86-31726* #	c 27	NASA-CASE-ARC-11421-2 US-PATENT-APPL-SN-739760 US-PATENT-CLASS-428-473.5 US-PATENT-CLASS-528-170 US-PATENT-CLASS-528-220 US-PATENT-CLASS-528-321 US-PATENT-CLASS-528-322 US-PATENT-4,600,769	N86-32695* #	c 35	NASA-CASE-NPO-16479-1CU US-PATENT-APPL-SN-719794 US-PATENT-CLASS-73-502 US-PATENT-CLASS-73-521 US-PATENT-4,602,509
N86-28131*	c 24	NASA-CASE-ARC-11615-1SB US-PATENT-APPL-SN-706682 US-PATENT-CLASS-428-116 US-PATENT-CLASS-428-408 US-PATENT-CLASS-428-921 US-PATENT-CLASS-526-265 US-PATENT-4,598,007	N86-31727*	c 27	NASA-CASE-LAR-13351-1 US-PATENT-APPL-SN-643589 US-PATENT-CLASS-264-212 US-PATENT-CLASS-264-236 US-PATENT-CLASS-427-162 US-PATENT-CLASS-427-164 US-PATENT-CLASS-427-165 US-PATENT-CLASS-428-336 US-PATENT-CLASS-428-473.5 US-PATENT-4,603,061	N86-32696*	c 35	NASA-CASE-LAR-13294-1 US-PATENT-APPL-SN-706681 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-862.04 US-PATENT-CLASS-73-862.61 US-PATENT-4,604,903
N86-28618*	c 54	NASA-CASE-ARC-11616-1 US-PATENT-APPL-SN-684193 US-PATENT-CLASS-128-202.11 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-2-2.1R US-PATENT-CLASS-414-1 US-PATENT-CLASS-414-5 US-PATENT-CLASS-414-7 US-PATENT-CLASS-414-8 US-PATENT-4,593,415	N86-32266*	c 74	NASA-CASE-GSC-12761-1 US-PATENT-APPL-SN-406820 US-PATENT-CLASS-356-4.5 US-PATENT-CLASS-356-5 US-PATENT-4,600,299	N86-32697*	c 35	NAS 1.71:ARC-11510-1 NASA-CASE-ARC-11510-1 US-PATENT-APPL-SN-602049 US-PATENT-CLASS-356-28.5 US-PATENT-CLASS-356-72 US-PATENT-CLASS-356-73 US-PATENT-CLASS-434-4 US-PATENT-4,600,301
N86-28619*	c 54	NASA-CASE-ARC-11610-1 US-PATENT-APPL-SN-684190 US-PATENT-CLASS-138-120 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-2-2.1R US-PATENT-CLASS-285-168 US-PATENT-4,598,427	N86-32447*	c 09	NASA-CASE-ARC-11504-1 US-PATENT-APPL-SN-565481 US-PATENT-CLASS-356-73 US-PATENT-4,605,303	N86-32698*	c 35	NASA-CASE-MFS-25833-1 US-PATENT-APPL-SN-473827 US-PATENT-CLASS-324-226 US-PATENT-CLASS-324-238 US-PATENT-CLASS-324-240 US-PATENT-CLASS-324-262 US-PATENT-CLASS-73-37.5 US-PATENT-4,551,677
N86-28620*	c 54	NASA-CASE-ARC-11543-1 US-PATENT-APPL-SN-684192 US-PATENT-CLASS-138-120 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-168 US-PATENT-CLASS-414-7 US-PATENT-4,594,734	N86-32525*	c 23	NASA-CASE-ARC-11506-2 US-PATENT-APPL-SN-641142 US-PATENT-CLASS-528-108 US-PATENT-CLASS-528-124 US-PATENT-CLASS-528-337 US-PATENT-CLASS-528-352 US-PATENT-CLASS-528-399 US-PATENT-CLASS-528-406 US-PATENT-CLASS-528-407 US-PATENT-4,587,324	N86-32736* #	c 37	NASA-CASE-MFS-19796-1 US-PATENT-APPL-SN-770920 US-PATENT-CLASS-138-97 US-PATENT-CLASS-165-76 US-PATENT-CLASS-228-119 US-PATENT-CLASS-29-402.16 US-PATENT-4,605,155
N86-28732*	c 74	NASA-CASE-GSC-12825-1 US-PATENT-APPL-SN-698641 US-PATENT-CLASS-350-276R US-PATENT-CLASS-350-505 US-PATENT-CLASS-354-479 US-PATENT-CLASS-358-222 US-PATENT-4,598,981	N86-32526* #	c 23	NAS 1.71:LAR-13555-1 NASA-CASE-LAR-13555-1 US-PATENT-APPL-SN-871207	N86-32737*	c 37	NASA-CASE-LAR-13081-1 US-PATENT-APPL-SN-760378 US-PATENT-CLASS-52-111 US-PATENT-CLASS-52-632 US-PATENT-CLASS-52-645 US-PATENT-CLASS-52-646 US-PATENT-4,604,844
N86-28760*	c 76	NASA-CASE-NPO-15904-1 US-PATENT-APPL-SN-465369 US-PATENT-CLASS-156-DIG.88 US-PATENT-CLASS-156-610 US-PATENT-CLASS-156-624 US-PATENT-4,596,626	N86-32550*	c 26	NASA-CASE-GSC-12880-1 US-PATENT-APPL-SN-590925 US-PATENT-CLASS-427-191 US-PATENT-CLASS-427-192 US-PATENT-CLASS-427-421 US-PATENT-CLASS-427-427 US-PATENT-4,552,784	N86-32738*	c 37	NASA-CASE-MFS-28059-1 US-PATENT-APPL-SN-709255 US-PATENT-CLASS-417-475 US-PATENT-4,604,038
			N86-32551*	c 26	NASA-CASE-NPO-15658-1 US-PATENT-APPL-SN-451896	N86-32875*	c 44	NASA-CASE-LEW-14177-1 US-PATENT-APPL-SN-669140 US-PATENT-CLASS-136-261 US-PATENT-CLASS-148-1.5 US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-576B US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-91

N86-33127*	c 72	US-PATENT-4,608,452 NASA-CASE-NPO-16372-1 US-PATENT-APPL-SN-703847 US-PATENT-CLASS-250-336.1 US-PATENT-CLASS-250-338 US-PATENT-CLASS-250-340 US-PATENT-4,600,840	N87-14704* #	c 37	US-PATENT-CLASS-29-580 US-PATENT-CLASS-29-591 US-PATENT-4,618,380 NAS 1.71:NPO-16892-1-CU NASA-CASE-NPO-16892-1-CU US-PATENT-APPL-SN-921573	N87-17035*	c 37	US-PATENT-CLASS-305-36 US-PATENT-CLASS-305-51 US-PATENT-CLASS-305-58PC US-PATENT-CLASS-305-58R US-PATENT-CLASS-474-220 US-PATENT-4,626,046
N86-33138* #	c 74	NAS 1.71:NPO-16869 NASA-CASE-NPO-16869-1CU US-PATENT-APPL-SN-867986	N87-14863* #	c 60	NAS 1.71:MSC-20964-1 NASA-CASE-MS-20964-1 US-PATENT-APPL-SN-878916	N87-17036*	c 37	NASA-CASE-MS-20857-1 US-PATENT-APPL-SN-783886 US-PATENT-CLASS-134-166C US-PATENT-CLASS-134-93 US-PATENT-CLASS-210-282 US-PATENT-4,635,663
N87-10231* #	c 33	NAS 1.71:NPO-16784-1 NASA-CASE-NPO-16784-1 US-PATENT-APPL-SN-879757	N87-14971*	c 74	NASA-CASE-MFS-26000-1 US-PATENT-APPL-SN-571615 US-PATENT-CLASS-356-246 US-PATENT-CLASS-372-61 US-PATENT-4,614,428	N87-17037*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-13313*	c 76	NASA-CASE-NPO-16045-1 US-PATENT-APPL-SN-641146 US-PATENT-CLASS-250-338 US-PATENT-CLASS-250-370 US-PATENT-CLASS-357-23.1 US-PATENT-CLASS-357-23.12 US-PATENT-CLASS-357-29 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-52 US-PATENT-4,605,946	N87-15304*	c 27	NASA-CASE-ARC-11429-4CU US-PATENT-APPL-SN-725686 US-PATENT-CLASS-525-282 US-PATENT-4,618,652	N87-17038*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14314*	c 05	NASA-CASE-LAR-13173-1 US-PATENT-APPL-SN-690274 US-PATENT-CLASS-244-118.1 US-PATENT-CLASS-244-137-A US-PATENT-CLASS-244-17.27 US-PATENT-CLASS-248-638 US-PATENT-CLASS-89-1.54 US-PATENT-4,616,793	N87-15413* #	c 33	NAS 1.71:NPO-16932-1 NASA-CASE-NPO-16932-1CU US-PATENT-APPL-SN-913433	N87-17039*	c 44	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14355*	c 09	NASA-CASE-MFS-28057-1 US-PATENT-APPL-SN-729766 US-PATENT-CLASS-350-319 US-PATENT-4,618,215	N87-15465* #	c 37	NAS 1.71:MSC-20761-1 NASA-CASE-MS-20761-1 US-PATENT-APPL-SN-913446	N87-17040*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14373*	c 18	NASA-CASE-MS-20635-1 US-PATENT-APPL-SN-588039 US-PATENT-CLASS-16-294 US-PATENT-CLASS-16-370 US-PATENT-CLASS-403-102 US-PATENT-CLASS-403-119 US-PATENT-CLASS-403-146 US-PATENT-CLASS-403-163 US-PATENT-CLASS-403-85 US-PATENT-4,615,637	N87-15882*	c 76	NASA-CASE-NPO-15813-2 US-PATENT-APPL-SN-706564 US-PATENT-CLASS-148-174 US-PATENT-CLASS-148-175 US-PATENT-CLASS-29-575 US-PATENT-CLASS-29-576-E US-PATENT-CLASS-29-576-W US-PATENT-CLASS-29-578 US-PATENT-4,612,072	N87-17041*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14420*	c 20	NASA-CASE-MFS-25989-1 US-PATENT-APPL-SN-690273 US-PATENT-CLASS-239-132.5 US-PATENT-CLASS-239-403 US-PATENT-CLASS-239-425 US-PATENT-CLASS-60-258 US-PATENT-CLASS-60-746 US-PATENT-4,621,492	N87-16793*	c 02	NASA-CASE-LAR-13255-1 US-PATENT-APPL-SN-550681 US-PATENT-CLASS-244-130 US-PATENT-CLASS-244-200 US-PATENT-CLASS-244-204 US-PATENT-CLASS-244-35R US-PATENT-4,619,423	N87-17042*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14482*	c 26	NASA-CASE-LEW-13834-1 US-PATENT-APPL-SN-478131 US-PATENT-CLASS-148-429 US-PATENT-CLASS-420-460 US-PATENT-4,610,736	N87-16828*	c 07	NASA-CASE-LAR-13134-2 US-PATENT-APPL-SN-846462 US-PATENT-CLASS-244-130 US-PATENT-CLASS-244-55 US-PATENT-4,629,147	N87-17043*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14515*	c 27	NASA-CASE-LAR-13316-2 US-PATENT-APPL-SN-760791 US-PATENT-CLASS-260-544-P US-PATENT-4,622,182	N87-16863*	c 17	NASA-CASE-LAR-13006-1 US-PATENT-APPL-SN-470113 US-PATENT-CLASS-340-825.5 US-PATENT-CLASS-340-870.18 US-PATENT-CLASS-371-63 US-PATENT-CLASS-375-88 US-PATENT-4,631,538	N87-17044*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14516*	c 27	NASA-CASE-LAR-13318-1 US-PATENT-APPL-SN-781813 US-PATENT-CLASS-428-262 US-PATENT-CLASS-428-447 US-PATENT-CLASS-528-26 US-PATENT-4,624,888	N87-16875*	c 20	NASA-CASE-LEW-14037-1 US-PATENT-APPL-SN-636463 US-PATENT-CLASS-219-275 US-PATENT-CLASS-60-203.1 US-PATENT-4,608,821	N87-17045*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14559*	c 32	NASA-CASE-LAR-13310-1 US-PATENT-APPL-SN-709257 US-PATENT-CLASS-356-5 US-PATENT-CLASS-367-99 US-PATENT-CLASS-73-597 US-PATENT-CLASS-73-615 US-PATENT-4,624,142	N87-16907*	c 27	NASA-CASE-LAR-13118-2 US-PATENT-APPL-SN-760797 US-PATENT-CLASS-560-104 US-PATENT-4,638,083	N87-17046*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14594*	c 33	NASA-CASE-NPO-16299-1 US-PATENT-APPL-SN-541526 US-PATENT-CLASS-356-389 US-PATENT-4,623,255	N87-16908*	c 27	NASA-CASE-ARC-11429-3CU US-PATENT-APPL-SN-725725 US-PATENT-CLASS-546-339 US-PATENT-CLASS-546-346 US-PATENT-CLASS-546-350 US-PATENT-4,626,593	N87-17047*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14669*	c 35	NASA-CASE-LAR-13268-1 US-PATENT-APPL-SN-727034 US-PATENT-CLASS-356-28.5 US-PATENT-CLASS-356-301 US-PATENT-4,624,561	N87-16909*	c 27	NASA-CASE-ARC-11428-2 US-PATENT-APPL-SN-760374 US-PATENT-CLASS-428-421 US-PATENT-CLASS-428-473.5 US-PATENT-CLASS-428-500 US-PATENT-CLASS-428-704 US-PATENT-CLASS-528-168 US-PATENT-CLASS-528-321 US-PATENT-CLASS-528-322 US-PATENT-4,634,759	N87-17048*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14670*	c 35	NASA-CASE-MFS-25981-1 US-PATENT-APPL-SN-657310 US-PATENT-CLASS-73-462 US-PATENT-CLASS-73-473 US-PATENT-CLASS-73-477 US-PATENT-4,619,142	N87-16918*	c 31	NASA-CASE-ARC-11363-1 US-PATENT-APPL-SN-500046 US-PATENT-CLASS-52-126.5 US-PATENT-CLASS-52-309.15 US-PATENT-CLASS-52-391 US-PATENT-CLASS-52-511 US-PATENT-CLASS-52-814 US-PATENT-4,637,181	N87-17049*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
N87-14671*	c 35	NASA-CASE-GSC-12956-1 US-PATENT-APPL-SN-745977 US-PATENT-CLASS-148-187 US-PATENT-CLASS-148-188 US-PATENT-CLASS-148-189 US-PATENT-CLASS-148-190	N87-17026*	c 36	NASA-CASE-ARC-11547-1 US-PATENT-APPL-SN-692745 US-PATENT-CLASS-356-28 US-PATENT-CLASS-356-28.5 US-PATENT-4,632,548	N87-17050*	c 37	NASA-CASE-MS-20475-1 US-PATENT-APPL-SN-725689 US-PATENT-CLASS-192-46 US-PATENT-CLASS-192-67R US-PATENT-4,635,773
			N87-17034*	c 37	NASA-CASE-NPO-16321-1CU US-PATENT-APPL-SN-692802	N87-21207*	c 32	NASA-CASE-NPO-16256-1 US-PATENT-APPL-SN-638586

				US-PATENT-CLASS-329-107				US-PATENT-CLASS-313-361.1				US-PATENT-APPL-SN-853361
				US-PATENT-CLASS-375-110				US-PATENT-CLASS-313-362.1				US-PATENT-CLASS-285-305
				US-PATENT-CLASS-375-120				US-PATENT-4,649,278				US-PATENT-CLASS-285-81
				US-PATENT-CLASS-375-23		N87-21661*	c 72	NASA-CASE-NPO-16640-1-CU				US-PATENT-CLASS-285-85
				US-PATENT-CLASS-455-608				US-PATENT-APPL-SN-852468				US-PATENT-CLASS-285-91
				US-PATENT-4,648,133				US-PATENT-CLASS-250-251				US-PATENT-4,655,482
N87-21232*	c 33			NASA-CASE-GSC-13018-1				US-PATENT-CLASS-250-396-R		N87-22985*	c 37	NASA-CASE-MSC-20979-1
				US-PATENT-APPL-SN-862959				US-PATENT-CLASS-250-423-P				US-PATENT-APPL-SN-796053
				US-PATENT-CLASS-331-116-R				US-PATENT-CLASS-376-127				US-PATENT-CLASS-244/161
				US-PATENT-CLASS-331-117-R				US-PATENT-4,649,273				US-PATENT-4,664,344
				US-PATENT-CLASS-331-56		N87-21679*	c 74	NASA-CASE-GSC-12897-1		N87-23259*	c 74	NASA-CASE-NPO-16558-1-CU
				US-PATENT-4,660,000				US-PATENT-APPL-SN-606432				US-PATENT-APPL-SN-779744
N87-21233*	c 33			NASA-CASE-MFS-28080-1				US-PATENT-CLASS-350-6.5				US-PATENT-CLASS-250-231-GY
				US-PATENT-APPL-SN-775548				US-PATENT-4,647,144				US-PATENT-CLASS-356-350
				US-PATENT-CLASS-318-138		N87-21755*	c 85	NASA-CASE-KSC-11282-1				US-PATENT-4,662,751
				US-PATENT-CLASS-318-254				US-PATENT-APPL-SN-751644		N87-23286*	c 76	NASA-CASE-NPO-15800-2
				US-PATENT-CLASS-318-439				US-PATENT-CLASS-180-19.2				US-PATENT-APPL-SN-442815
				US-PATENT-4,644,234				US-PATENT-CLASS-180-305				US-PATENT-APPL-SN-674395
N87-21234*	c 33			NASA-CASE-LEW-13935-1				US-PATENT-CLASS-280-47.11				US-PATENT-CLASS-156-607
				US-PATENT-APPL-SN-700255				US-PATENT-CLASS-296-20				US-PATENT-CLASS-156-617-H
				US-PATENT-CLASS-250-423-R				US-PATENT-CLASS-5-81-R				US-PATENT-CLASS-156-617-SP
				US-PATENT-CLASS-315-111.81				US-PATENT-CLASS-60-415				US-PATENT-4,654,110
				US-PATENT-4,642,523				US-PATENT-4,646,860		N87-23631*	c 08	NASA-CASE-ARC-11633-1
N87-21235*	c 33			NASA-CASE-LAR-13151-1		N87-22678*	c 06	NASA-CASE-LAR-12984-1				US-PATENT-APPL-SN-846439
				US-PATENT-APPL-SN-683101				US-PATENT-APPL-SN-578387				US-PATENT-CLASS-416-114
				US-PATENT-CLASS-307-261				US-PATENT-CLASS-244-1-R				US-PATENT-CLASS-416-158
				US-PATENT-CLASS-307-354				US-PATENT-CLASS-340-945				US-PATENT-4,669,958
				US-PATENT-CLASS-328-147				US-PATENT-CLASS-340-971		N87-23698*	c 23	NASA-CASE-ARC-11643-1-SB
				US-PATENT-CLASS-328-164				US-PATENT-CLASS-340-975				US-PATENT-APPL-SN-901496
				US-PATENT-CLASS-328-28				US-PATENT-CLASS-73-178-R				US-PATENT-CLASS-423-276
				US-PATENT-4,652,833				US-PATENT-4,663,627				US-PATENT-CLASS-423-284
N87-21255*	c 34			NASA-CASE-ARC-11631-1		N87-22845*	c 27	NASA-CASE-ARC-11429-2-CU		N87-23713* #	c 25	NASA-CASE-LAR-13597-1-CU
				US-PATENT-APPL-SN-846428				US-PATENT-APPL-SN-553339				US-PATENT-APPL-SN-008199
				US-PATENT-CLASS-239-426				US-PATENT-APPL-SN-725727		N87-23736*	c 27	NASA-CASE-LEW-14072-3
				US-PATENT-CLASS-239-434				US-PATENT-CLASS-524-404				US-PATENT-APPL-SN-834977
				US-PATENT-CLASS-239-545				US-PATENT-CLASS-524-548				US-PATENT-CLASS-428-421
				US-PATENT-CLASS-73-147				US-PATENT-CLASS-525-182				US-PATENT-CLASS-428-422
				US-PATENT-4,648,267				US-PATENT-CLASS-526-262				US-PATENT-CLASS-428-447
N87-21304*	c 35			NASA-CASE-NPO-15617-1				US-PATENT-4,526,925				US-PATENT-CLASS-428-473
				US-PATENT-APPL-SN-403849				US-PATENT-4,647,615				US-PATENT-CLASS-428-702
				US-PATENT-CLASS-74-424.8-R		N87-22847*	c 27	NASA-CASE-LAR-13444-1-CU				US-PATENT-4,664,980
				US-PATENT-CLASS-74-441				US-PATENT-APPL-SN-734366				NAS 1.71:ARC-11652-1
				US-PATENT-CLASS-74-458				US-PATENT-CLASS-528-229		N87-23737* #	c 27	NASA-CASE-ARC-11652-1
				US-PATENT-CLASS-74-468				US-PATENT-CLASS-546-262				US-PATENT-APPL-SN-008242
				US-PATENT-CLASS-74-89.15				US-PATENT-CLASS-546-264				NASA-CASE-ARC-11533-1
				US-PATENT-4,586,394				US-PATENT-CLASS-564-330		N87-23751*	c 27	US-PATENT-APPL-SN-641147
N87-21332*	c 37			NASA-CASE-MFS-28058-1				US-PATENT-CLASS-564-396				US-PATENT-CLASS-548-413
				US-PATENT-APPL-SN-751691				US-PATENT-CLASS-564-430				US-PATENT-4,670,565
				US-PATENT-CLASS-137-606				US-PATENT-4,663,483				NASA-CASE-NPO-16467-1-CU
				US-PATENT-CLASS-251-165		N87-22848*	c 27	NASA-CASE-LAR-13452-1		N87-23879*	c 33	US-PATENT-APPL-SN-838648
				US-PATENT-4,657,044				US-PATENT-APPL-SN-838655				US-PATENT-CLASS-136-249
N87-21333*	c 37			NASA-CASE-MFS-25956-1				US-PATENT-CLASS-525-36				US-PATENT-CLASS-136-255
				US-PATENT-APPL-SN-580397				US-PATENT-CLASS-528-176				US-PATENT-CLASS-357-30
				US-PATENT-CLASS-248-316.4				US-PATENT-CLASS-528-184				US-PATENT-CLASS-357-35
				US-PATENT-CLASS-248-550				US-PATENT-CLASS-528-192				US-PATENT-4,665,277
				US-PATENT-4,582,289				US-PATENT-CLASS-528-193		N87-23904*	c 33	NASA-CASE-GSC-12773-2
N87-21334*	c 37			NASA-CASE-NPO-16423-1-CU				US-PATENT-4,661,558				US-PATENT-APPL-SN-809851
				US-PATENT-APPL-SN-765978		N87-22894*	c 33	NASA-CASE-NPO-16337-1-CU				US-PATENT-CLASS-290-1-R
				US-PATENT-CLASS-228-124				US-PATENT-APPL-SN-683111				US-PATENT-CLASS-310-15
				US-PATENT-CLASS-228-208				US-PATENT-CLASS-324-158-D				US-PATENT-CLASS-310-30
				US-PATENT-CLASS-228-209				US-PATENT-CLASS-324-158-R				US-PATENT-4,675,563
				US-PATENT-CLASS-427-229				US-PATENT-4,661,770		N87-23941* #	c 35	NAS 1.71:LAR-13689-1
				US-PATENT-4,650,108				NASA-CASE-GSC-12961-1				NASA-CASE-LAR-13689-1-NP
N87-21410*	c 44			NASA-CASE-MFS-25978-1				US-PATENT-APPL-SN-754707				US-PATENT-APPL-SN-929869
				US-PATENT-APPL-SN-636459				US-PATENT-CLASS-307-490		N87-23944*	c 35	NASA-CASE-MFS-28087-1
				US-PATENT-CLASS-307-131				US-PATENT-CLASS-330-107				US-PATENT-APPL-SN-805010
				US-PATENT-CLASS-307-31				US-PATENT-CLASS-330-294				US-PATENT-CLASS-373-10
				US-PATENT-CLASS-307-64				US-PATENT-CLASS-331-177-R				US-PATENT-CLASS-373-15
				US-PATENT-CLASS-307-66				US-PATENT-CLASS-333-214				US-PATENT-4,677,642
				US-PATENT-CLASS-307-80				US-PATENT-CLASS-333-217				NASA-CASE-NPO-16542-1-CU
				US-PATENT-CLASS-318-107				US-PATENT-4,644,306		N87-23960*	c 36	US-PATENT-APPL-SN-781812
				US-PATENT-CLASS-318-161				NASA-CASE-MSC-20841-1				US-PATENT-CLASS-350-3.73
				US-PATENT-4,649,287				US-PATENT-APPL-SN-755288				US-PATENT-CLASS-350-3.81
N87-21591*	c 60			NASA-CASE-NPO-15982-1				US-PATENT-CLASS-165-1				US-PATENT-CLASS-372-103
				US-PATENT-APPL-SN-673685				US-PATENT-CLASS-165-104.25				US-PATENT-CLASS-372-18
				US-PATENT-CLASS-371-37				US-PATENT-CLASS-165-104.26				US-PATENT-CLASS-372-43
				US-PATENT-CLASS-371-40				US-PATENT-CLASS-165-34				US-PATENT-4,677,629
				US-PATENT-4,649,541				US-PATENT-4,664,177		N87-23961*	c 36	NASA-CASE-NPO-16433-1
N87-21652*	c 71			NASA-CASE-LAR-13111-1-CU				NASA-CASE-NPO-16544-1-CU				US-PATENT-APPL-SN-790594
				US-PATENT-APPL-SN-751695		N87-22953*	c 35	US-PATENT-APPL-SN-746809				US-PATENT-CLASS-372-68
				US-PATENT-CLASS-73-583				US-PATENT-CLASS-324-61-R				US-PATENT-CLASS-372-81
				US-PATENT-CLASS-73-589				US-PATENT-CLASS-73-336.5				US-PATENT-4,677,636
				US-PATENT-CLASS-73-599				US-PATENT-4,662,220		N87-23970*	c 37	NASA-CASE-NPO-15482-1
				US-PATENT-4,644,794				NASA-CASE-LAR-13009-2				US-PATENT-APPL-SN-526739
N87-21653*	c 71			NASA-CASE-LAR-13440-1		N87-22976*	c 37	US-PATENT-APPL-SN-495380				US-PATENT-CLASS-310-306
				US-PATENT-APPL-SN-775989				US-PATENT-APPL-SN-698279				US-PATENT-CLASS-337-393
				US-PATENT-CLASS-73-1-DV				US-PATENT-CLASS-411-166				US-PATENT-4,665,334
				US-PATENT-CLASS-73-599				US-PATENT-CLASS-411-368		N87-23981*	c 37	NASA-CASE-MSC-20797-1
				US-PATENT-4,649,750				US-PATENT-CLASS-411-424				US-PATENT-APPL-SN-771537
N87-21660*	c 72			NASA-CASE-NPO-16061-1-CU				US-PATENT-CLASS-411-427				US-PATENT-CLASS-156-286
				US-PATENT-APPL-SN-729768				US-PATENT-CLASS-411-531				US-PATENT-CLASS-156-289
				US-PATENT-CLASS-250-288				US-PATENT-4,572,699				US-PATENT-CLASS-156-298
				US-PATENT-CLASS-250-423-R				US-PATENT-4,650,385				US-PATENT-CLASS-156-307.1
				US-PATENT-CLASS-250-424				NASA-CASE-MFS-25964-2				US-PATENT-CLASS-156-307.3
				US-PATENT-CLASS-250-427		N87-22977*	c 37	US-PATENT-APPL-SN-692801				US-PATENT-CLASS-156-307.7
				US-PATENT-CLASS-313-359.1								

N87-23982*	c 37	US-PATENT-CLASS-156-87	US-PATENT-CLASS-375-54	US-PATENT-CLASS-148-162
		US-PATENT-4,676,853	US-PATENT-CLASS-375-59	US-PATENT-CLASS-148-410
N87-23983*	c 37	NASA-CASE-LAR-13100-1	US-PATENT-CLASS-375-76	US-PATENT-4,676,846
		US-PATENT-APPL-SN-831377	US-PATENT-4,682,343	NASA-CASE-LEW-14392-1
N87-24564*	c 27	US-PATENT-CLASS-250-238	NASA-CASE-MSC-21166-1	US-PATENT-APPL-SN-886149
		US-PATENT-CLASS-250-352	US-PATENT-APPL-SN-032685	US-PATENT-CLASS-264-332
N87-24575* #	c 27	US-PATENT-CLASS-62-514-R	NASA-CASE-LAR-13564-1	US-PATENT-CLASS-264-60
		US-PATENT-4,672,202	US-PATENT-APPL-SN-044180	US-PATENT-CLASS-264-63
N87-24689*	c 37	NASA-CASE-LAR-13198-1	NASA-CASE-LAR-13680-1	US-PATENT-CLASS-268-367
		US-PATENT-APPL-SN-729704	US-PATENT-APPL-SN-052941	US-PATENT-4,689,188
N87-25334*	c 09	US-PATENT-CLASS-60-634	NASA-CASE-NPO-16497-1-CU	NASA-CASE-LAR-13450-1
		US-PATENT-CLASS-60-638	US-PATENT-APPL-SN-783887	US-PATENT-APPL-SN-840816
N87-25344*	c 14	US-PATENT-CLASS-89-114	US-PATENT-CLASS-307-425	US-PATENT-CLASS-428-290
		US-PATENT-4,669,354	US-PATENT-CLASS-372-20	US-PATENT-CLASS-525-426
N87-25348*	c 17	NASA-CASE-ARC-11533-3	US-PATENT-CLASS-372-4	US-PATENT-CLASS-525-432
		US-PATENT-APPL-SN-852467	US-PATENT-CLASS-372-69	US-PATENT-CLASS-525-436
N87-25455*	c 26	US-PATENT-CLASS-528-413	US-PATENT-CLASS-372-99	US-PATENT-CLASS-525-903
		US-PATENT-4,675,379	US-PATENT-4,682,053	US-PATENT-4,695,610
N87-25474* #	c 27	NAS 1.71: LAR-13633-1	NASA-CASE-ARC-11620-1	NASA-CASE-LAR-13407-1
		NASA-CASE-LAR-13633-1	US-PATENT-APPL-SN-795945	US-PATENT-APPL-SN-804196
N87-25489* #	c 29	US-PATENT-APPL-SN-011693	US-PATENT-CLASS-137-614.11	US-PATENT-CLASS-313-505
		NASA-CASE-MFS-26011-1-SB	US-PATENT-CLASS-137-614.18	US-PATENT-CLASS-313-506
N87-25491* #	c 31	US-PATENT-CLASS-351-206	US-PATENT-CLASS-251-129.15	US-PATENT-CLASS-313-509
		US-PATENT-CLASS-351-208	US-PATENT-CLASS-251-175	US-PATENT-4,689,522
N87-25492*	c 31	US-PATENT-CLASS-354-62	US-PATENT-4,681,142	NASA-CASE-LEW-14108-1
		US-PATENT-4,669,836	NASA-CASE-MSC-20910-1	US-PATENT-APPL-SN-732321
N87-25495* #	c 31	NASA-CASE-LAR-13522-1-SB	US-PATENT-APPL-SN-783888	US-PATENT-CLASS-313-237
		US-PATENT-APPL-SN-890575	US-PATENT-CLASS-244-161	US-PATENT-CLASS-313-278
N87-25511* #	c 32	US-PATENT-CLASS-73-147	US-PATENT-CLASS-292-DIG.49	US-PATENT-4,687,964
		US-PATENT-CLASS-73-856	US-PATENT-CLASS-292-201	NASA-CASE-ARC-11613-1
N87-25513*	c 33	US-PATENT-4,682,494	US-PATENT-CLASS-292-64	US-PATENT-APPL-SN-739792
		NASA-CASE-ARC-11646-1	US-PATENT-4,682,745	US-PATENT-CLASS-244-134-D
N87-25515*	c 33	US-PATENT-APPL-SN-924398	NASA-CASE-LEW-14196-2	US-PATENT-CLASS-318-116
		US-PATENT-CLASS-434-34	US-PATENT-APPL-SN-054983	US-PATENT-4,690,353
N87-25517*	c 33	US-PATENT-4,678,438	NASA-CASE-MFS-28118-1	NASA-CASE-MSC-20946-1
		NASA-CASE-MSC-20821-1	US-PATENT-APPL-SN-886121	US-PATENT-APPL-SN-875799
N87-25519*	c 33	US-PATENT-APPL-SN-775990	US-PATENT-CLASS-73-809	US-PATENT-CASE-165-1
		US-PATENT-CLASS-358-105	US-PATENT-CLASS-73-810	US-PATENT-CASE-165-104.25
N87-25521*	c 33	US-PATENT-CLASS-358-133	US-PATENT-4,676,110	US-PATENT-CASE-165-104.26
		US-PATENT-CLASS-358-138	NASA-CASE-NPO-17058-1-CU	US-PATENT-CASE-165-13
N87-25523*	c 33	US-PATENT-4,682,225	US-PATENT-APPL-SN-060201	US-PATENT-CASE-165-32
		NASA-CASE-LAR-13474-1-SB	NASA-CASE-MFS-29207-1	US-PATENT-CASE-165-41
N87-25525*	c 33	US-PATENT-APPL-SN-840900	US-PATENT-APPL-SN-713449	US-PATENT-4,687,048
		US-PATENT-CLASS-148-6.3	US-PATENT-APPL-SN-783890	NASA-CASE-LAR-13512-1
N87-25527*	c 33	US-PATENT-CLASS-204-192.15	US-PATENT-CLASS-219-124.34	US-PATENT-APPL-SN-901113
		US-PATENT-CLASS-204-192.23	US-PATENT-CLASS-219-130.01	US-PATENT-CLASS-285-137.1
N87-25529*	c 33	US-PATENT-CLASS-428-607	US-PATENT-CLASS-219-74	US-PATENT-CLASS-285-901
		US-PATENT-CLASS-428-632	US-PATENT-4,633,060	US-PATENT-CLASS-73-147
N87-25531*	c 33	US-PATENT-CLASS-428-651	US-PATENT-4,682,006	US-PATENT-CLASS-73-756
		US-PATENT-CLASS-428-660	NASA-CASE-MFS-28060-1	US-PATENT-4,688,422
N87-25533*	c 33	US-PATENT-4,681,818	US-PATENT-APPL-SN-706565	NASA-CASE-LAR-13393-1
		NASA-CASE-ARC-11548-1	US-PATENT-CLASS-356-128	US-PATENT-APPL-SN-760799
N87-25535*	c 33	US-PATENT-APPL-SN-806572	US-PATENT-CLASS-356-129	US-PATENT-CLASS-182-223
		US-PATENT-CLASS-428-413	US-PATENT-4,681,437	US-PATENT-CLASS-182-63
N87-25537*	c 33	US-PATENT-CLASS-428-417	NASA-CASE-NPO-16808-1-CU	US-PATENT-CLASS-182-82
		US-PATENT-CLASS-528-108	US-PATENT-APPL-SN-027981	US-PATENT-4,685,535
N87-25539*	c 33	US-PATENT-CLASS-528-168	NASA-CASE-LAR-13489-1	NASA-CASE-LAR-13476-1-CU
		US-PATENT-4,668,589	US-PATENT-APPL-SN-890445	US-PATENT-APPL-SN-933961
N87-25541* #	c 33	NASA-CASE-LAR-13732-1	US-PATENT-CLASS-285-27	US-PATENT-CLASS-423-338
		US-PATENT-APPL-SN-035430	US-PATENT-CLASS-285-31	US-PATENT-CLASS-423-339
N87-25543* #	c 33	NASA-CASE-NPO-17022-1-CU	US-PATENT-CLASS-285-373	US-PATENT-4,696,808
		US-PATENT-APPL-SN-066450	US-PATENT-CLASS-285-421	NASA-CASE-LAR-13306-1
N87-25545* #	c 33	NASA-CASE-MFS-28044-1	US-PATENT-CLASS-285-86	US-PATENT-APPL-SN-846430
		US-PATENT-APPL-SN-804039	US-PATENT-CLASS-403-341	US-PATENT-CLASS-340-407
N87-25547* #	c 33	US-PATENT-CLASS-408-1-R	US-PATENT-4,684,156	US-PATENT-CLASS-434-114
		US-PATENT-CLASS-51-281-R	NASA-CASE-LAR-13150-1	US-PATENT-4,687,444
N87-25549* #	c 33	US-PATENT-4,680,897	US-PATENT-APPL-SN-729767	NAS 1.71: LAR-13738-1
		NASA-CASE-LAR-13113-1	US-PATENT-CLASS-29-156.5-F	NASA-CASE-LAR-13738-1
N87-25551* #	c 33	US-PATENT-APPL-SN-831371	US-PATENT-CLASS-92-208	US-PATENT-APPL-SN-073539
		US-PATENT-CLASS-182-152	US-PATENT-4,683,809	NAS 1.71: LAR-13632-1
N87-25553* #	c 33	US-PATENT-CLASS-52-108	NASA-CASE-NPO-16567-1-CU	NASA-CASE-LAR-13632-1
		US-PATENT-CLASS-52-632	US-PATENT-APPL-SN-760790	US-PATENT-APPL-SN-079316
N87-25555* #	c 33	US-PATENT-CLASS-52-646	US-PATENT-CLASS-250-339	NAS 1.71: MSC-21082-1
		US-PATENT-4,677,803	US-PATENT-CLASS-250-343	NASA-CASE-MSC-21082-1
N87-25557* #	c 33	NASA-CASE-MSC-21025-1	US-PATENT-CLASS-250-373	US-PATENT-APPL-SN-079320
		US-PATENT-APPL-SN-035401	US-PATENT-CLASS-356-256	NASA-CASE-LAR-13286-1
N87-25559* #	c 33	NASA-CASE-NPO-16414-1-CU	US-PATENT-CLASS-356-409	US-PATENT-APPL-SN-686959
		US-PATENT-APPL-SN-729719	US-PATENT-CLASS-356-51	US-PATENT-CLASS-114-67R
N87-25561* #	c 33	US-PATENT-CLASS-332-23-A	US-PATENT-4,684,258	US-PATENT-CLASS-138-38
		US-PATENT-CLASS-375-101	NASA-CASE-ARC-11611-1	US-PATENT-CLASS-244-130
N87-25563* #	c 33	US-PATENT-CLASS-375-102	US-PATENT-APPL-SN-765981	US-PATENT-CLASS-244-199
		US-PATENT-CLASS-375-39	US-PATENT-CLASS-156-163	US-PATENT-CLASS-244-200
N87-25565* #	c 33	US-PATENT-CLASS-375-54	US-PATENT-CLASS-156-229	US-PATENT-CLASS-296-1S
		US-PATENT-CLASS-375-55	US-PATENT-CLASS-156-286	US-PATENT-4,706,910
N87-25567* #	c 33	US-PATENT-4,675,880	US-PATENT-CLASS-156-382	NASA-CASE-LAR-13470-1
		NASA-CASE-MSC-20187-1	US-PATENT-CLASS-156-494	US-PATENT-APPL-SN-855983
N87-25569* #	c 33	US-PATENT-APPL-SN-649327	US-PATENT-CLASS-264-291	US-PATENT-CLASS-361-218
		US-PATENT-CLASS-371-43	US-PATENT-4,684,424	US-PATENT-CLASS-361-222
N87-25571* #	c 33	US-PATENT-CLASS-375-120	NASA-CASE-ARC-11425-2	US-PATENT-4,698,723
			US-PATENT-APPL-SN-641152	NASA-CASE-LEW-14104-2
N87-25573* #	c 33		US-PATENT-CLASS-558-145	US-PATENT-APPL-SN-661481
			US-PATENT-CLASS-558-190	US-PATENT-APPL-SN-823713
N87-25575* #	c 33		US-PATENT-CLASS-558-193	US-PATENT-CLASS-148-16.6
			US-PATENT-4,689,421	US-PATENT-CLASS-204-192.31
N87-25577* #	c 33		NASA-CASE-LEW-14262-1	US-PATENT-CLASS-427-38
			US-PATENT-APPL-SN-832296	US-PATENT-4,704,168

N88-14223*	c 31	NASA-CASE-NPO-16734-1-CU US-PATENT-APPL-SN-855982 US-PATENT-CLASS-62-467 US-PATENT-CLASS-62-48 US-PATENT-CLASS-62-514R US-PATENT-4,697,425	N88-23765*	c 05	NASA-CASE-LAR-13511-1 US-PATENT-APPL-SN-013801 US-PATENT-CLASS-244-119 US-PATENT-CLASS-244-120 US-PATENT-CLASS-244-130 US-PATENT-CLASS-244-15	N88-23966*	c 35	NASA-CASE-LAR-13519-1 US-PATENT-APPL-SN-146938 NASA-CASE-MSC-20467-1 US-PATENT-APPL-SN-874319 US-PATENT-CLASS-73-587 US-PATENT-CLASS-73-801 US-PATENT-4,718,281
N88-14270*	c 33	NASA-CASE-NPO-16764-1-CU US-PATENT-APPL-SN-904513 US-PATENT-CLASS-439-271 US-PATENT-CLASS-439-578 US-PATENT-4,698,028	N88-23808*	c 08	NASA-CASE-GSC-12970-1 US-PATENT-APPL-SN-795805 US-PATENT-CLASS-244-165 US-PATENT-4,732,353	N88-23967*	c 35	NASA-CASE-LAR-13458-1 US-PATENT-APPL-SN-013802 US-PATENT-CLASS-73-794 US-PATENT-CLASS-73-810 US-PATENT-4,718,281
N88-14271*	c 33	NASA-CASE-GSC-12782-1 US-PATENT-APPL-SN-399074 US-PATENT-CLASS-357-231 US-PATENT-CLASS-357-24 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-56 US-PATENT-CLASS-357-61 US-PATENT-CLASS-357-65 US-PATENT-4,709,252	N88-23809*	c 08	NASA-CASE-LAR-13630-1 US-PATENT-APPL-SN-008895 US-PATENT-CLASS-244-17.19 US-PATENT-CLASS-244-91 US-PATENT-4,708,305	N88-23973* #	c 37	NAS 1.71:MSC-21171-1 NASA-CASE-MSC-21171-1 US-PATENT-APPL-SN-135120 US-PATENT-CLASS-28273-1 NASA-CASE-MFS-28273-1 US-PATENT-APPL-SN-149830
N88-14350*	c 36	NASA-CASE-ARC-11634-1 US-PATENT-APPL-SN-846427 US-PATENT-CLASS-350-163 US-PATENT-CLASS-350-174 US-PATENT-CLASS-350-572 US-PATENT-CLASS-350-573 US-PATENT-CLASS-356-28.5 US-PATENT-4,697,922	N88-23827*	c 18	NASA-CASE-MSC-21056-1 US-PATENT-APPL-SN-934397 US-PATENT-CLASS-16-292 US-PATENT-CLASS-16-297 US-PATENT-CLASS-16-326 US-PATENT-CLASS-16-332 US-PATENT-CLASS-16-345 US-PATENT-CLASS-16-347 US-PATENT-CLASS-16-349 US-PATENT-4,736,490	N88-23978*	c 37	NASA-CASE-LEW-14212-1 US-PATENT-APPL-SN-875798 US-PATENT-CLASS-415-136 US-PATENT-CLASS-415-170-R US-PATENT-4,728,257
N88-14359*	c 37	NASA-CASE-LAR-13662-1 US-PATENT-APPL-SN-790597 US-PATENT-APPL-SN-904812 US-PATENT-CLASS-228-107 US-PATENT-CLASS-228-109 US-PATENT-CLASS-228-2.5 US-PATENT-4,708,280	N88-23828*	c 18	NASA-CASE-LAR-13411-1-SB US-PATENT-APPL-SN-913432 US-PATENT-CLASS-180-8.6 US-PATENT-CLASS-414-735 US-PATENT-CLASS-414-750 US-PATENT-CLASS-901-1 US-PATENT-CLASS-901-33 US-PATENT-4,738,583	N88-23979*	c 37	NASA-CASE-MFS-28185-1 US-PATENT-APPL-SN-056930 US-PATENT-CLASS-294-106 US-PATENT-CLASS-294-113 US-PATENT-CLASS-294-119.2 US-PATENT-CLASS-294-16 US-PATENT-4,723,800
N88-14360*	c 37	NASA-CASE-MFS-28001-2 US-PATENT-APPL-SN-025039 US-PATENT-APPL-SN-739788 US-PATENT-CLASS-269-43 US-PATENT-CLASS-269-71 US-PATENT-CLASS-269-73 US-PATENT-4,708,330	N88-23845*	c 25	NASA-CASE-MFS-28142-1 US-PATENT-APPL-SN-904128 US-PATENT-CLASS-204-180.1 US-PATENT-CLASS-204-299-R US-PATENT-4,752,372	N88-23980*	c 37	NASA-CASE-MFS-29252-1 US-PATENT-APPL-SN-044181 US-PATENT-CLASS-219-137.42 US-PATENT-CLASS-219-75 US-PATENT-4,749,839
N88-14361*	c 37	NASA-CASE-LAR-13453-1 US-PATENT-APPL-SN-010950 US-PATENT-CLASS-33-147D US-PATENT-CLASS-73-834 US-PATENT-4,706,387	N88-23846*	c 25	NASA-CASE-NPO-15609-2 US-PATENT-APPL-SN-511363 US-PATENT-APPL-SN-761310 US-PATENT-CLASS-159-3 US-PATENT-CLASS-159-48.2 US-PATENT-CLASS-159-900 US-PATENT-CLASS-203-90 US-PATENT-CLASS-203-91 US-PATENT-CLASS-203-98 US-PATENT-4,666,561	N88-23981*	c 37	NASA-CASE-LAR-13435-1 US-PATENT-APPL-SN-890683 US-PATENT-CLASS-123-193-P US-PATENT-CLASS-92-176 US-PATENT-CLASS-92-212 US-PATENT-CLASS-92-214 US-PATENT-CLASS-92-222 US-PATENT-CLASS-92-224 US-PATENT-4,736,676
N88-14362*	c 37	NASA-CASE-MFS-29177-1 US-PATENT-APPL-SN-010942 US-PATENT-CLASS-219-124.34 US-PATENT-CLASS-219-130.01 US-PATENT-CLASS-219-136 US-PATENT-4,698,484	N88-23894*	c 27	NASA-CASE-GSC-13008-1 US-PATENT-APPL-SN-867987 US-PATENT-CLASS-264-DIG.64 US-PATENT-CLASS-264-50 US-PATENT-CLASS-425-4-R US-PATENT-4,731,211	N88-23982*	c 37	NASA-CASE-LAR-12801-1 US-PATENT-APPL-SN-309291 US-PATENT-CLASS-188-373 US-PATENT-CLASS-248-548 US-PATENT-CLASS-248-608 US-PATENT-CLASS-297-216 US-PATENT-4,720,139
N88-14492*	c 44	NASA-CASE-ARC-11622-1 US-PATENT-APPL-SN-823712 US-PATENT-CLASS-126-425 US-PATENT-CLASS-250-203R US-PATENT-4,710,618	N88-23917* #	c 31	NAS 1.71:NPO-17334-1-CU NASA-CASE-NPO-17334-1-CU US-PATENT-APPL-SN-149821	N88-24163*	c 54	NASA-CASE-MFS-26009-1-SB US-PATENT-APPL-SN-805011 US-PATENT-CLASS-108-3 US-PATENT-CLASS-108-7 US-PATENT-CLASS-312-196 US-PATENT-CLASS-312-208 US-PATENT-CLASS-312-300 US-PATENT-CLASS-312-7.2 US-PATENT-4,725,106
N88-14835*	c 76	NASA-CASE-MFS-26008-1-CU US-PATENT-APPL-SN-800194 US-PATENT-CLASS-156-621 US-PATENT-CLASS-156-622 US-PATENT-CLASS-156-624 US-PATENT-CLASS-422-251 US-PATENT-CLASS-422-260 US-PATENT-4,711,697	N88-23941*	c 33	NASA-CASE-MSC-20181-1 US-PATENT-APPL-SN-392093 US-PATENT-CLASS-174-52-PE US-PATENT-CLASS-174-52-R US-PATENT-CLASS-174-52-S US-PATENT-CLASS-357-72 US-PATENT-CLASS-357-74 US-PATENT-CLASS-357-81 US-PATENT-CLASS-525-425 US-PATENT-4,750,031	N88-24169*	c 60	NASA-CASE-NPO-16462-1-CU US-PATENT-APPL-SN-815106 US-PATENT-CLASS-364-728 US-PATENT-CLASS-364-757 US-PATENT-CLASS-382-42 US-PATENT-4,750,144
N88-14836*	c 76	NASA-CASE-NPO-16607-1-CU US-PATENT-APPL-SN-901114 US-PATENT-CLASS-357-30 US-PATENT-CLASS-437-128 US-PATENT-CLASS-437-131 US-PATENT-CLASS-437-3 US-PATENT-CLASS-437-7 US-PATENT-CLASS-437-8 US-PATENT-CLASS-437-969 US-PATENT-4,711,857	N88-23942*	c 33	NASA-CASE-LAR-13202-1 US-PATENT-APPL-SN-879758 US-PATENT-CLASS-315-200-R US-PATENT-CLASS-315-227-R US-PATENT-CLASS-315-241-R US-PATENT-CLASS-315-254 US-PATENT-CLASS-315-255 US-PATENT-CLASS-315-276 US-PATENT-CLASS-315-277 US-PATENT-4,723,096	N88-24241*	c 71	NASA-CASE-NPO-16675-1-CU US-PATENT-APPL-SN-627537 US-PATENT-APPL-SN-789266 US-PATENT-CLASS-181-0.5 US-PATENT-CLASS-367-191 US-PATENT-CLASS-73-505 US-PATENT-4,573,356 US-PATENT-4,736,815
N88-18628*	c 24	NAS 1.71:ARC-11641-1 NASA-CASE-ARC-11641-1 US-PATENT-APPL-SN-862925 US-PATENT-CLASS-244-117-A US-PATENT-CLASS-244-158-A US-PATENT-CLASS-428-44 US-PATENT-CLASS-428-74 US-PATENT-CLASS-428-76 US-PATENT-CLASS-428-920 US-PATENT-4,713,275	N88-23946* #	c 34	NAS 1.71:NPO-17291-1-CU NASA-CASE-NPO-17291-1-CU US-PATENT-APPL-SN-032679 US-PATENT-APPL-SN-755288 US-PATENT-CLASS-126-423 US-PATENT-CLASS-165-1 US-PATENT-CLASS-165-104.14 US-PATENT-CLASS-165-13 US-PATENT-CLASS-165-41 US-PATENT-4,664,177 US-PATENT-4,750,543	N88-24253*	c 72	NASA-CASE-MFS-28122-1 US-PATENT-APPL-SN-021100 US-PATENT-CLASS-250-251 US-PATENT-CLASS-250-423-R US-PATENT-CLASS-250-427 US-PATENT-CLASS-315-111.41 US-PATENT-CLASS-315-111.71 US-PATENT-CLASS-315-111.81 US-PATENT-4,742,232
N88-18725*	c 27	NAS 1.71:LAR-13447-1 NASA-CASE-LAR-13447-1 US-PATENT-APPL-SN-855879 US-PATENT-CLASS-525-397 US-PATENT-CLASS-525-905 US-PATENT-4,711,932	N88-23958*	c 34	NASA-CASE-MSC-20841-2 US-PATENT-APPL-SN-032679 US-PATENT-APPL-SN-755288 US-PATENT-CLASS-126-423 US-PATENT-CLASS-165-1 US-PATENT-CLASS-165-104.14 US-PATENT-CLASS-165-13 US-PATENT-CLASS-165-41 US-PATENT-4,664,177 US-PATENT-4,750,543	N88-24543*	c 76	NASA-CASE-NPO-16881-1-CU US-PATENT-APPL-SN-764812 US-PATENT-CLASS-204-192.15 US-PATENT-CLASS-204-192.24 US-PATENT-4,726,890
N88-23759*	c 02	NASA-CASE-LAR-13436-1-CU US-PATENT-APPL-SN-003676 US-PATENT-CLASS-73-147	N88-23959* #	c 35	NAS 1.71:MFS-28287-1 NASA-CASE-MFS-28287-1 US-PATENT-APPL-SN-122740	N88-24544*	c 76	NASA-CASE-MFS-28137-1 US-PATENT-APPL-SN-925189 US-PATENT-CLASS-156-DIG.70 US-PATENT-CLASS-156-DIG.72 US-PATENT-CLASS-156-DIG.82 US-PATENT-CLASS-156-607 US-PATENT-CLASS-156-621 US-PATENT-CLASS-156-624
			N88-23963* #	c 35	NAS 1.71:LAR-13519-1			

		US-PATENT-CLASS-422-246				US-PATENT-APPL-SN-924474				US-PATENT-APPL-SN-054980
		US-PATENT-4,738,831				US-PATENT-CLASS-260-386				US-PATENT-APPL-SN-846429
N88-24545*	c 76	NASA-CASE-MFS-28144-1				US-PATENT-CLASS-260-389				US-PATENT-CLASS-244-134-F
		US-PATENT-APPL-SN-924399				US-PATENT-CLASS-260-395				US-PATENT-CLASS-324-61-R
		US-PATENT-CLASS-156-DIG.70				US-PATENT-CLASS-549-241				US-PATENT-CLASS-340-580
		US-PATENT-CLASS-156-DIG.72				US-PATENT-4,758,380				US-PATENT-4,766,369
		US-PATENT-CLASS-156-DIG.82	N88-26541* #	c 32	NAS 1.71:NPO-17184-1-CU		N88-29150*	c 35	NASA-CASE-LAR-13826-1	
		US-PATENT-CLASS-156-DIG.84			NASA-CASE-NPO-17184-1-CU				US-PATENT-APPL-SN-102705	
		US-PATENT-CLASS-156-DIG.89			US-PATENT-APPL-SN-195225				US-PATENT-APPL-SN-684186	
		US-PATENT-CLASS-156-DIG.92	N88-26568*	c 32	NASA-CASE-MSC-20912-1				US-PATENT-APPL-SN-890982	
		US-PATENT-CLASS-156-620.76			US-PATENT-APPL-SN-831193				US-PATENT-CLASS-73-290-R	
		US-PATENT-4,740,264			US-PATENT-CLASS-342-125				US-PATENT-CLASS-73-304-R	
N88-24660* #	c 16	NAS 1.71:MSC-21330-1			US-PATENT-CLASS-342-127				US-PATENT-4,765,187	
		NASA-CASE-MSC-21330-1			US-PATENT-CLASS-342-43		N88-29151*	c 35	NASA-CASE-NPO-17068-1-CU	
		US-PATENT-APPL-SN-182000			US-PATENT-CLASS-342-51				US-PATENT-APPL-SN-076956	
N88-24684* #	c 20	NAS 1.71:MSC-21299-1			US-PATENT-4,757,315				US-PATENT-CLASS-60-527	
		NASA-CASE-MSC-21299-1	N88-26596*	c 33	NASA-CASE-NPO-17157-1-CU				US-PATENT-4,765,139	
		US-PATENT-APPL-SN-176597			US-PATENT-APPL-SN-116810		N88-29180*	c 37	NASA-CASE-MSC-21207-1	
N88-24692*	c 23	NASA-CASE-ARC-11428-3			US-PATENT-CLASS-331-162				US-PATENT-APPL-SN-032818	
		US-PATENT-APPL-SN-599126			US-PATENT-CLASS-331-3				US-PATENT-CLASS-403-171	
		US-PATENT-APPL-SN-760374			US-PATENT-CLASS-331-94.1				US-PATENT-CLASS-403-217	
		US-PATENT-APPL-SN-924467			US-PATENT-4,757,278				US-PATENT-CLASS-52-646	
		US-PATENT-CLASS-558-80	N88-28914*	c 05	NASA-CASE-ARC-11636-1				US-PATENT-CLASS-52-648	
		US-PATENT-CLASS-564-13			US-PATENT-APPL-SN-933963		N88-29181*	c 37	US-PATENT-4,763,459	
		US-PATENT-4,550,177			US-PATENT-CLASS-244-12.3				NASA-CASE-MSC-21132-1	
		US-PATENT-4,634,759			US-PATENT-CLASS-244-12.4				US-PATENT-APPL-SN-118992	
		US-PATENT-4,748,263			US-PATENT-CLASS-244-207				US-PATENT-CLASS-188-218-XL	
N88-24732*	c 25	NASA-CASE-NPO-16907-1-CU			US-PATENT-CLASS-244-45-A				US-PATENT-CLASS-188-251-A	
		US-PATENT-APPL-SN-930217			US-PATENT-CLASS-244-55				US-PATENT-4,763,762	
		US-PATENT-CLASS-204-157.22			US-PATENT-4,767,083		N88-29310*	c 60	NASA-CASE-NPO-16116-2	
		US-PATENT-CLASS-250-423-P	N88-28939*	c 09	NASA-CASE-LEW-14374-1				US-PATENT-APPL-SN-004282	
		US-PATENT-CLASS-250-427			US-PATENT-APPL-SN-060200				US-PATENT-APPL-SN-587749	
		US-PATENT-4,704,197			US-PATENT-CLASS-219-383				US-PATENT-CLASS-364-200	
N88-24817* #	c 31	NAS 1.71:MFS-28248-1			US-PATENT-CLASS-363-97				US-PATENT-4,766,533	
		NASA-CASE-MFS-28248-1			US-PATENT-CLASS-60-203.1		N88-29602* #	c 76	NAS 1.71:MFS-28282-1	
		US-PATENT-APPL-SN-176545			US-PATENT-4,766,724				NASA-CASE-MFS-28282-1	
N88-24862*	c 33	NASA-CASE-NPO-16402-2	N88-28946* #	c 17	NAS 1.71:NPO-17310-1-CU				US-PATENT-APPL-SN-217533	
		US-PATENT-APPL-SN-013803			NASA-CASE-NPO-17310-1-CU		N88-30108*	c 35	NASA-CASE-LAR-13797-1	
		US-PATENT-APPL-SN-727931			US-PATENT-APPL-SN-200874				US-PATENT-APPL-SN-074792	
		US-PATENT-CLASS-307-106	N88-28958*	c 18	NASA-CASE-MSC-21117-1				US-PATENT-APPL-SN-831372	
		US-PATENT-CLASS-315-172			US-PATENT-APPL-SN-929875				US-PATENT-CLASS-156-233	
		US-PATENT-CLASS-315-173			US-PATENT-CLASS-52-646				US-PATENT-CLASS-156-247	
		US-PATENT-CLASS-328-67			US-PATENT-CLASS-52-648				US-PATENT-CLASS-156-272.4	
		US-PATENT-4,698,518			US-PATENT-4,765,114				US-PATENT-CLASS-156-274.8	
N88-24863* #	c 33	NAS 1.71:NPO-16882-1-CU	N88-29002*	c 25	NASA-CASE-LAR-13528-1				US-PATENT-CLASS-156-275.5	
		NASA-CASE-NPO-16882-1-CU			US-PATENT-APPL-SN-933962				US-PATENT-CLASS-156-307.7	
		US-PATENT-APPL-SN-154711			US-PATENT-CLASS-236-15-E				US-PATENT-4,767,484	
N88-24927*	c 35	NASA-CASE-MSC-20549-2			US-PATENT-CLASS-364-500		N88-30131*	c 37	NASA-CASE-MSC-20900-1	
		US-PATENT-APPL-SN-045743			US-PATENT-CLASS-364-557				US-PATENT-APPL-SN-079317	
		US-PATENT-APPL-SN-790596			US-PATENT-CLASS-364-571				US-PATENT-CLASS-219-121.54	
		US-PATENT-CLASS-254-93-H			US-PATENT-CLASS-374-361				US-PATENT-CLASS-219-121.56	
		US-PATENT-CLASS-254-93-R			US-PATENT-CLASS-431-13				US-PATENT-CLASS-219-121.57	
		US-PATENT-CLASS-269-147			US-PATENT-CLASS-431-76				US-PATENT-CLASS-219-124.02	
		US-PATENT-CLASS-269-246			US-PATENT-4,761,744				US-PATENT-CLASS-219-130.4	
		US-PATENT-CLASS-72-750	N88-29040*	c 27	NASA-CASE-ARC-11649-1-SB				US-PATENT-4,766,286	
		US-PATENT-4,736,927			US-PATENT-APPL-SN-890577		N88-30160* #	c 39	NAS 1.71:LAR-13889-1	
N88-24941* #	c 35	NAS 1.71:MSC-21094-1			US-PATENT-CLASS-501-88				NASA-CASE-LAR-13889-1	
		NASA-CASE-MSC-21094-1			US-PATENT-CLASS-501-91				US-PATENT-APPL-SN-210277	
		US-PATENT-APPL-SN-156393			US-PATENT-CLASS-501-92		N89-11738*	c 05	NASA-CASE-LAR-12852-1	
N88-24943* #	c 35	NAS 1.71:NPO-17024-1-CU			US-PATENT-CLASS-501-93				US-PATENT-APPL-SN-028832	
		NASA-CASE-NPO-17024-1-CU			US-PATENT-CLASS-528-10				US-PATENT-CLASS-244-75-R	
		US-PATENT-APPL-SN-159613			US-PATENT-CLASS-528-30				US-PATENT-CLASS-244-78	
N88-24958*	c 36	NASA-CASE-MSC-20867-1			US-PATENT-CLASS-528-40				US-PATENT-4,773,620	
		US-PATENT-APPL-SN-045984			US-PATENT-CLASS-528-4		N89-11814* #	c 23	NAS 1.71:LAR-13988-1	
		US-PATENT-CLASS-356-1	N88-29052*	c 31	NASA-CASE-MSC-18172-3				NASA-CASE-LAR-13988-1	
		US-PATENT-CLASS-356-376			US-PATENT-APPL-SN-119334				US-PATENT-APPL-SN-250661	
		US-PATENT-CLASS-356-4			US-PATENT-APPL-SN-755960		N89-11961*	c 32	NASA-CASE-MSC-20873-1-SB	
		US-PATENT-CLASS-358-107			US-PATENT-APPL-SN-898449				US-PATENT-APPL-SN-060196	
		US-PATENT-CLASS-364-561			US-PATENT-CLASS-210-500.25				US-PATENT-CLASS-342-374	
		US-PATENT-4,736,247			US-PATENT-CLASS-210-500.35				US-PATENT-CLASS-342-375	
N88-24969* #	c 37	NAS 1.71:MSC-21354-1			US-PATENT-CLASS-210-639				US-PATENT-CLASS-343-777	
		NASA-CASE-MSC-21354-1			US-PATENT-CLASS-210-653				US-PATENT-CLASS-343-778	
		US-PATENT-APPL-SN-154712			US-PATENT-CLASS-427-245				US-PATENT-CLASS-343-779	
N88-25011* #	c 39	NAS 1.71:LAR-13705-1			US-PATENT-4,762,619		N89-12048*	c 35	US-PATENT-4,772,893	
		NASA-CASE-LAR-13705-1	N88-29076*	c 32	NASA-CASE-NPO-17196-1-CU				NASA-CASE-LEW-14297-1	
		US-PATENT-APPL-SN-203177			US-PATENT-APPL-SN-084770				US-PATENT-APPL-SN-917125	
N88-25301* #	c 74	NAS 1.71:NPO-17139-1-CU			US-PATENT-CLASS-328-155				US-PATENT-CLASS-126-443	
		NASA-CASE-NPO-17139-1-CU			US-PATENT-CLASS-331-17				US-PATENT-CLASS-126-901	
		US-PATENT-APPL-SN-154718			US-PATENT-CLASS-331-25				US-PATENT-CLASS-165-41	
N88-25302* #	c 74	NAS 1.71:LAR-13387-1			US-PATENT-4,771,250				US-PATENT-CLASS-165-904	
		NASA-CASE-LAR-13387-1	N88-29095* #	c 33	NAS 1.71:NPO-17233-1-CU				US-PATENT-4,770,232	
		US-PATENT-APPL-SN-154716			NASA-CASE-NPO-17233-1-CU		N89-12551*	c 02	NASA-CASE-LAR-13554-1	
N88-25304* #	c 74	NAS 1.71:NPO-17207-1-CU			US-PATENT-APPL-SN-231025				US-PATENT-APPL-SN-929862	
		NASA-CASE-NPO-17207-1-CU	N88-29132*	c 34	NASA-CASE-MSC-20840-1				US-PATENT-CLASS-116-DIG.43	
		US-PATENT-APPL-SN-190185			US-PATENT-APPL-SN-943346				US-PATENT-CLASS-116-265	
N88-25305* #	c 74	NAS 1.71:NPO-17144-1-CU			US-PATENT-CLASS-165-170				US-PATENT-CLASS-73-147	
		NASA-CASE-NPO-17144-1-CU			US-PATENT-CLASS-165-81				US-PATENT-4,774,835	
		US-PATENT-APPL-SN-187716			US-PATENT-4,762,173		N89-12621*	c 18	NASA-CASE-MSC-21096-1	
N88-26398*	c 18	NASA-CASE-MSC-20985-1	N88-29133*	c 34	NASA-CASE-GSC-13019-1				US-PATENT-APPL-SN-929865	
		US-PATENT-APPL-SN-904134			US-PATENT-APPL-SN-942158				US-PATENT-CLASS-182-103	
		US-PATENT-CLASS-104-172.1			US-PATENT-CLASS-122-366				US-PATENT-CLASS-212-225	
		US-PATENT-CLASS-104-35			US-PATENT-CLASS-138-38				US-PATENT-CLASS-212-257	
		US-PATENT-CLASS-104-49			US-PATENT-CLASS-165-104.26				US-PATENT-CLASS-414-689	
		US-PATENT-CLASS-244-159			US-PATENT-CLASS-165-905				US-PATENT-CLASS-414-718	
		US-PATENT-4,757,767			US-PATENT-4,765,396				US-PATENT-CLASS-414-735	
N88-26404*	c 23	NASA-CASE-LEW-14345-1	N88-29149*	c 35	NASA-CASE-LAR-13776-1				US-PATENT-4,772,175	

N89-12667*	c 23	NASA-CASE-LAR-13444-2-CU US-PATENT-APPL-SN-000692 US-PATENT-CLASS-564-315 US-PATENT-CLASS-564-323 US-PATENT-CLASS-564-330 US-PATENT-CLASS-564-342 US-PATENT-CLASS-564-344 US-PATENT-CLASS-564-396 US-PATENT-CLASS-564-430 US-PATENT-4,774,359	N89-14303*	c 26	US-PATENT-4,776,531 NASA-CASE-LEW-14134-2 US-PATENT-APPL-SN-108331 US-PATENT-CLASS-420-54 US-PATENT-CLASS-420-62 US-PATENT-CLASS-420-79 US-PATENT-CLASS-420-80 US-PATENT-CLASS-420-81 US-PATENT-CLASS-420-81 US-PATENT-4,780,276	N89-25279*	c 20	NASA-CASE-MSC-20476-2 US-PATENT-APPL-SN-046341 US-PATENT-CLASS-239-265.17 US-PATENT-CLASS-60-202 US-PATENT-CLASS-60-264 US-PATENT-4,815,279
N89-12741*	c 27	NASA-CASE-LAR-13506-1 US-PATENT-APPL-SN-060182 US-PATENT-CLASS-156-297 US-PATENT-CLASS-156-299 US-PATENT-CLASS-428-44 US-PATENT-CLASS-428-47 US-PATENT-CLASS-428-58 US-PATENT-CLASS-428-71 US-PATENT-CLASS-428-76 US-PATENT-4,774,118	N89-14337*	c 27	NASA-CASE-LAR-13601-1-CU US-PATENT-APPL-SN-028831 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-128 US-PATENT-4,788,271	N89-25363*	c 32	NASA-CASE-LAR-13798-1 US-PATENT-APPL-SN-118991 US-PATENT-CLASS-343-DIG.2 US-PATENT-CLASS-343-880 US-PATENT-CLASS-343-915 US-PATENT-4,811,033
N89-12785*	c 31	NASA-CASE-NPO-17085-1-CU US-PATENT-APPL-SN-087282 US-PATENT-CLASS-165-61 US-PATENT-CLASS-165-96 US-PATENT-CLASS-62-467 US-PATENT-CLASS-62-514-R US-PATENT-4,771,823	N89-14351*	c 31	NASA-CASE-NPO-17143-1-CU US-PATENT-APPL-SN-105847 US-PATENT-CLASS-62-467 US-PATENT-CLASS-62-514-JT US-PATENT-4,779,428	N89-25689*	c 74	NASA-CASE-MFS-29348-1 US-PATENT-APPL-SN-156518 US-PATENT-CLASS-350-96.21 US-PATENT-CLASS-350-96.25 US-PATENT-4,798,433
N89-12786*	c 31	NASA-CASE-LAR-13438-1 US-PATENT-APPL-SN-022298 US-PATENT-CLASS-428-182 US-PATENT-CLASS-52-814 US-PATENT-CLASS-52-821 US-PATENT-4,769,968	N89-14374*	c 32	NASA-CASE-GSC-12892-1 US-PATENT-APPL-SN-655606 US-PATENT-CLASS-455-115 US-PATENT-CLASS-455-117 US-PATENT-CLASS-455-67 US-PATENT-CLASS-455-98 US-PATENT-4,777,656	N89-26202*	c 35	NASA-CASE-MFS-28242-1 US-PATENT-APPL-SN-149822 US-PATENT-CLASS-356-347 US-PATENT-CLASS-356-361 US-PATENT-4,810,094
N89-12841*	c 35	NASA-CASE-LAR-13569-1 US-PATENT-APPL-SN-010943 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-180 US-PATENT-4,770,032	N89-14384*	c 33	NASA-CASE-ARC-11536-1 US-PATENT-APPL-SN-725714 US-PATENT-CLASS-342-195 US-PATENT-CLASS-356-28.5 US-PATENT-CLASS-364-900 US-PATENT-4,779,222	N89-26400*	c 60	NASA-CASE-NPO-16461-1CU US-PATENT-APPL-SN-815103 US-PATENT-CLASS-364-131 US-PATENT-CLASS-382-41 US-PATENT-CLASS-382-42 US-PATENT-CLASS-382-49 US-PATENT-4,790,026
N89-12842* #	c 35	NAS 1.71:MSC-21372-1 NASA-CASE-MSC-21372-1 US-PATENT-APPL-SN-246595	N89-14385*	c 33	NASA-CASE-LAR-13552-1-CU US-PATENT-APPL-SN-933941 US-PATENT-CLASS-324-77-E US-PATENT-CLASS-324-77-R US-PATENT-CLASS-324-78-D US-PATENT-CLASS-324-78-F US-PATENT-CLASS-356-28.5 US-PATENT-CLASS-364-484 US-PATENT-CLASS-377-39 US-PATENT-4,786,168	N89-28553*	c 18	NASA-CASE-MSC-21211-1 US-PATENT-APPL-SN-105841 US-PATENT-CLASS-244-159 US-PATENT-CLASS-244-161 US-PATENT-CLASS-285-226 US-PATENT-CLASS-403-51 US-PATENT-4,809,936
N89-12866* #	c 37	NAS 1.71:MSC-21095-1 NASA-CASE-MSC-21095-1 US-PATENT-APPL-SN-248010	N89-14392*	c 34	NASA-CASE-MFS-28217-1 US-PATENT-APPL-SN-067844 US-PATENT-CLASS-122-366 US-PATENT-CLASS-165-104.14 US-PATENT-CLASS-165-104.26 US-PATENT-4,770,238	N89-28554*	c 18	NASA-CASE-MSC-21117-2 US-PATENT-APPL-SN-184233 US-PATENT-APPL-SN-929875 US-PATENT-CLASS-248-DIG-1 US-PATENT-CLASS-403-30 US-PATENT-CLASS-403-4 US-PATENT-CLASS-52-573 US-PATENT-CLASS-52-648 US-PATENT-4,805,368
N89-12867* #	c 37	NAS 1.71:LAR-13719-1 NASA-CASE-LAR-13719-1 US-PATENT-APPL-SN-239260	N89-14407*	c 35	NASA-CASE-LAR-13300-1-CU US-PATENT-APPL-SN-829042 US-PATENT-CLASS-310-308 US-PATENT-CLASS-367-938 US-PATENT-CLASS-73-290-V US-PATENT-4,770,038	N89-28556* #	c 18	NAS 1.71:MFS-28327-1 NASA-CASE-MFS-28327-1 US-PATENT-APPL-SN-361200
N89-12868* #	c 37	NAS 1.71:MFS-29291-1 NASA-CASE-MFS-29291-1 US-PATENT-APPL-SN-250196	N89-14422*	c 35	NASA-CASE-NPO-17086-1-CU US-PATENT-APPL-SN-087359 US-PATENT-CLASS-73-505 US-PATENT-4,773,266	N89-28603* #	c 25	NAS 1.71:MFS-26049-1-NP NASA-CASE-MFS-26049-1-NP US-PATENT-APPL-SN-376487
N89-13236*	c 71	NASA-CASE-NPO-16896-1-CU US-PATENT-APPL-SN-087283 US-PATENT-CLASS-73-505 US-PATENT-4,773,266	N89-14423*	c 35	NASA-CASE-LAR-13853-1 US-PATENT-APPL-SN-143436 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-861.65 US-PATENT-4,783,994	N89-28621*	c 26	NASA-CASE-LAR-13924-1-CU US-PATENT-APPL-SN-172102 US-PATENT-CLASS-148-159 US-PATENT-CLASS-148-416 US-PATENT-CLASS-148-417 US-PATENT-CLASS-420-529 US-PATENT-CLASS-420-533 US-PATENT-4,820,488
N89-13253* #	c 74	NAS 1.71:MFS-28183-1 NASA-CASE-MFS-28183-1 US-PATENT-APPL-SN-244367	N89-15379*	c 35	NASA-CASE-MSC-20906-2 US-PATENT-APPL-SN-021569 US-PATENT-CLASS-244-164 US-PATENT-CLASS-244-165 US-PATENT-CLASS-74-572 US-PATENT-4,776,541	N89-28672*	c 32	NASA-CASE-LAR-13747-1-CU US-PATENT-APPL-SN-197191 US-PATENT-CLASS-342-1 US-PATENT-CLASS-342-165 US-PATENT-CLASS-342-5 US-PATENT-4,809,003
N89-13785*	c 37	NASA-CASE-NPO-16766-1-CU US-PATENT-APPL-SN-921577 US-PATENT-CLASS-194-902 US-PATENT-CLASS-269-267 US-PATENT-CLASS-294-88 US-PATENT-4,770,455	N89-16042*	c 27	NASA-CASE-ARC-11533-2 US-PATENT-APPL-SN-852461 US-PATENT-CLASS-528-220 US-PATENT-CLASS-528-228 US-PATENT-CLASS-528-321 US-PATENT-CLASS-528-322 US-PATENT-CLASS-528-323 US-PATENT-CLASS-528-72 US-PATENT-CLASS-528-73 US-PATENT-4,775,740	N89-28676*	c 32	NASA-CASE-NPO-17249-1-CU US-PATENT-APPL-SN-125666 US-PATENT-CLASS-358-88 US-PATENT-CLASS-358-91 US-PATENT-CLASS-358-92 US-PATENT-4,819,064
N89-13786*	c 37	NASA-CASE-KSC-11368-1 US-PATENT-APPL-SN-052940 US-PATENT-CLASS-285-107 US-PATENT-CLASS-285-108 US-PATENT-CLASS-285-109 US-PATENT-CLASS-285-133.1 US-PATENT-CLASS-285-351 US-PATENT-CLASS-285-39 US-PATENT-CLASS-285-97 US-PATENT-4,772,050	N89-16256*	c 52	NASA-CASE-ARC-11426-2 US-PATENT-APPL-SN-827185 US-PATENT-CLASS-351-203 US-PATENT-CLASS-351-237 US-PATENT-4,778,268	N89-28713*	c 33	NASA-CASE-NPO-17108-1-CU US-PATENT-APPL-SN-032819 US-PATENT-CLASS-364-724.01 US-PATENT-CLASS-364-724.05 US-PATENT-CLASS-364-735 US-PATENT-CLASS-364-754 US-PATENT-4,823,299
N89-13889* #	c 54	NAS 1.71:MSC-21364-1 NASA-CASE-MSC-21364-1 US-PATENT-APPL-SN-221472	N89-23466* #	c 07	NAS 1.71:LAR-14049-1 NASA-CASE-LAR-14049-1 US-PATENT-APPL-SN-270189	N89-28795* #	c 35	NAS 1.71:NPO-17596-1-CU NASA-CASE-NPO-17596-1-CU US-PATENT-APPL-SN-361531
N89-14077*	c 74	NASA-CASE-NPO-17140-1-CU US-PATENT-APPL-SN-125021 US-PATENT-CLASS-250-216 US-PATENT-CLASS-350-354 US-PATENT-4,772,785	N89-23623* #	c 24	NAS 1.71:LEW-14734-1 NASA-CASE-LEW-14734-1 US-PATENT-APPL-SN-279624	N89-28817* #	c 36	NAS 1.71:LAR-14203-1 NASA-CASE-LAR-14203-1 US-PATENT-APPL-SN-359459
N89-14078*	c 74	NASA-CASE-NPO-16750-1-CU US-PATENT-APPL-SN-927972 US-PATENT-CLASS-350-162.13 US-PATENT-CLASS-350-331-R US-PATENT-CLASS-350-337 US-PATENT-CLASS-350-342 US-PATENT-CLASS-382-31 US-PATENT-4,772,101	N89-25242*	c 09	NASA-CASE-MFS-25962-1 US-PATENT-APPL-SN-633180 US-PATENT-CLASS-239-14.1 US-PATENT-CLASS-239-2.1 US-PATENT-4,781,326	N89-28831*	c 37	NASA-CASE-MFS-28253-1 US-PATENT-APPL-SN-165943 US-PATENT-CLASS-33-536 US-PATENT-4,809,441
N89-14120* #	c 76	NAS 1.71:NPO-17399-1-CU NASA-CASE-NPO-17399-1-CU US-PATENT-APPL-SN-248019	N89-25266*	c 18	NASA-CASE-ARC-11505-2	N89-28842* #	c 37	NAS 1.71:MFS-28345-2 NASA-CASE-MFS-28345-2 US-PATENT-APPL-SN-358028
N89-14224*	c 02	NASA-CASE-LAR-13215-1 US-PATENT-APPL-SN-904132 US-PATENT-CLASS-244-35-R US-PATENT-CLASS-416-223-R						

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N90-20254*	c 31	US-PATENT-4,848,987	N90-21177*	c 27	US-PATENT-CLASS-324-227	N90-21999*	c 34	US-PATENT-CLASS-318-434
		NASA-CASE-MSC-21253-1			US-PATENT-CLASS-324-235			US-PATENT-CLASS-318-561
		US-PATENT-APPL-SN-251439			US-PATENT-CLASS-324-239			US-PATENT-CLASS-318-615
		US-PATENT-CLASS-137-154			US-PATENT-4,912,411			US-PATENT-CLASS-318-618
		US-PATENT-CLASS-141-93			NASA-CASE-ARC-11649-2-SB			US-PATENT-CLASS-388-821
		US-PATENT-CLASS-239-543			US-PATENT-APPL-SN-231027			US-PATENT-4,912,386
		US-PATENT-CLASS-55-159			US-PATENT-CLASS-501-88			US-PATENT-CLASS-165-32
		US-PATENT-CLASS-55-46			US-PATENT-CLASS-501-91			US-PATENT-CLASS-165-32
		US-PATENT-4,846,854			US-PATENT-CLASS-501-92			US-PATENT-CLASS-165-46
N90-20280*	c 32	NASA-CASE-MSC-18808-1			US-PATENT-CLASS-528-10			US-PATENT-CLASS-165-78
		US-PATENT-APPL-SN-125677			US-PATENT-CLASS-528-30			US-PATENT-CLASS-165-96
		US-PATENT-CLASS-342-105			US-PATENT-CLASS-528-4			US-PATENT-4,909,313
		US-PATENT-CLASS-342-114			US-PATENT-CLASS-556-402			NASA-CASE-KSC-11386-1
		US-PATENT-CLASS-342-195			US-PATENT-4,851,491			US-PATENT-APPL-SN-264107
		US-PATENT-4,860,014	N90-21198*	c 27	NASA-CASE-LAR-13448-1			US-PATENT-CLASS-324-329
N90-20282*	c 33	NASA-CASE-GSC-12442-2			US-PATENT-APPL-SN-838654			US-PATENT-4,912,414
		US-PATENT-APPL-SN-675471			US-PATENT-CLASS-264-022			NASA-CASE-LEW-14844-1
		US-PATENT-CLASS-357-22			US-PATENT-CLASS-522-162			US-PATENT-APPL-SN-326766
		US-PATENT-CLASS-357-55			US-PATENT-CLASS-522-165			US-PATENT-CLASS-210-512.1
		US-PATENT-CLASS-357-68			US-PATENT-CLASS-528-176			US-PATENT-CLASS-210-97
		US-PATENT-CLASS-357-76			US-PATENT-CLASS-528-308			US-PATENT-CLASS-55-160
		US-PATENT-CLASS-357-81			US-PATENT-4,910,233			US-PATENT-CLASS-55-203
		US-PATENT-4,843,440	N90-21209*	c 29	NASA-CASE-MFS-26047-1			US-PATENT-CLASS-55-204
N90-20320*	c 33	NASA-CASE-LAR-13273-2			US-PATENT-APPL-SN-244369			US-PATENT-4,911,738
		US-PATENT-APPL-SN-625436			US-PATENT-CLASS-210-205			NASA-CASE-LAR-13816-1
		US-PATENT-APPL-SN-862942			US-PATENT-CLASS-210-247			US-PATENT-APPL-SN-165945
		US-PATENT-CLASS-323-903			US-PATENT-CLASS-210-257.1			US-PATENT-CLASS-422-111
		US-PATENT-CLASS-361-65			US-PATENT-CLASS-210-321.6			US-PATENT-CLASS-422-126
		US-PATENT-CLASS-361-79			US-PATENT-CLASS-210-340			US-PATENT-CLASS-422-62
		US-PATENT-CLASS-55-105			US-PATENT-CLASS-210-94			US-PATENT-CLASS-422-98
		US-PATENT-CLASS-55-139			US-PATENT-CLASS-210-95			US-PATENT-CLASS-436-137
		US-PATENT-4,605,424			US-PATENT-4,909,933			US-PATENT-CLASS-436-143
		US-PATENT-4,860,149	N90-21215*	c 31	NASA-CASE-NPO-17278-1-CU			US-PATENT-CLASS-436-55
N90-20323*	c 34	NASA-CASE-LAR-13761-1			US-PATENT-APPL-SN-172100			US-PATENT-4,911,890
		US-PATENT-APPL-SN-237036			US-PATENT-CLASS-181-0.5			NASA-CASE-LAR-13926-1
		US-PATENT-CLASS-165-104			US-PATENT-CLASS-361-383			US-PATENT-APPL-SN-250469
		US-PATENT-CLASS-165-133			US-PATENT-CLASS-361-384			US-PATENT-CLASS-123-193P
		US-PATENT-CLASS-165-180			US-PATENT-CLASS-361-385			US-PATENT-CLASS-29-888.046
		US-PATENT-CLASS-165-41			US-PATENT-CLASS-62-467			US-PATENT-CLASS-92-212
		US-PATENT-CLASS-165-905			US-PATENT-4,858,717			US-PATENT-CLASS-92-213
		US-PATENT-4,838,346	N90-21216*	c 31	NASA-CASE-LAR-14050-1			US-PATENT-CLASS-92-222
N90-20351*	c 35	NASA-CASE-NPO-16878-1-CU			US-PATENT-APPL-SN-067846			US-PATENT-CLASS-92-248
		US-PATENT-APPL-SN-084062			US-PATENT-APPL-SN-237657			US-PATENT-4,909,133
		US-PATENT-CLASS-219-121.28			US-PATENT-CLASS-164-113			NASA-CASE-KSC-11392-1
		US-PATENT-CLASS-250-310			US-PATENT-CLASS-164-284			US-PATENT-APPL-SN-262851
		US-PATENT-CLASS-250-396-ML			US-PATENT-CLASS-249-127			US-PATENT-CLASS-250-229
		US-PATENT-CLASS-250-396-R			US-PATENT-4,865,114			US-PATENT-CLASS-350-356
		US-PATENT-4,847,502	N90-21358*	c 35	NASA-CASE-NPO-17235-1-CU			US-PATENT-4,910,396
N90-20408*	c 37	NASA-CASE-MSC-21365-1			US-PATENT-APPL-SN-116811			INT-PATENT-CLASS-B64G-1/14
		US-PATENT-APPL-SN-221388			US-PATENT-CLASS-357-29			NASA-CASE-LAR-13486-1
		US-PATENT-CLASS-294-106			US-PATENT-CLASS-357-30			US-Patent-4,884,770
		US-PATENT-CLASS-294-86.4			US-PATENT-CLASS-357-4			US-PATENT-APPL-SN-076955
		US-PATENT-CLASS-901-38			US-PATENT-CLASS-357-58			US-PATENT-CLASS-244-158R
		US-PATENT-CLASS-901-39			US-PATENT-CLASS-357-90			US-PATENT-CLASS-244-160
		US-PATENT-4,858,979			US-PATENT-4,860,074			US-PATENT-CLASS-244-161
N90-20409*	c 37	NASA-CASE-LAR-13696-1	N90-21390*	c 37	NASA-CASE-MSC-21436-1			US-PATENT-CLASS-244-172
		US-PATENT-APPL-SN-267146			US-PATENT-APPL-SN-313839			INT-PATENT-CLASS-H01J-25/34
		US-PATENT-CLASS-73-831			US-PATENT-CLASS-102-378			NASA-CASE-LEW-14520-1
		US-PATENT-CLASS-73-860			US-PATENT-CLASS-194-82.26			US-Patent-4,890,036
		US-PATENT-4,864,865			US-PATENT-CLASS-194-82.29			US-PATENT-APPL-SN-130058
N90-20616*	c 52	NASA-CASE-MFS-28234-1			US-PATENT-CLASS-89-1.14			US-PATENT-CLASS-315-3.5
		US-PATENT-APPL-SN-087281			US-PATENT-CLASS-89-1.57			US-PATENT-CLASS-331-82
		US-PATENT-CLASS-427-2			US-PATENT-4,864,910			INT-PATENT-CLASS-B64D-1/00
		US-PATENT-CLASS-428-408			NASA-CASE-LAR-13901-1-NP			NASA-CASE-NPO-17390-1-CU
		US-PATENT-CLASS-530-362	N90-21519*	c 52	US-PATENT-APPL-SN-118993			US-Patent-4,886,222
		US-PATENT-CLASS-530-363			US-PATENT-APPL-SN-929869			US-PATENT-APPL-SN-205899
		US-PATENT-CLASS-530-364			US-PATENT-CLASS-128-661.03			US-PATENT-CLASS-244-1R
		US-PATENT-CLASS-530-387			US-PATENT-4,852,578			US-PATENT-CLASS-244-138A
		US-PATENT-CLASS-530-422			NASA-CASE-NPO-17205-1-CU			US-PATENT-CLASS-358-109
		US-PATENT-4,833,233			US-PATENT-APPL-SN-143434			INT-PATENT-CLASS-H04N-7/18
N90-20896*	c 76	NASA-CASE-MFS-25786-2			US-PATENT-CLASS-377-111			NASA-CASE-LAR-13740-1
		US-PATENT-APPL-SN-441896			US-PATENT-CLASS-377-114			US-Patent-4,885,633
		US-PATENT-APPL-SN-811309			US-PATENT-CLASS-377-116			US-PATENT-APPL-SN-205900
		US-PATENT-CLASS-156-616.4			US-PATENT-CLASS-377-123			US-PATENT-CLASS-250-459.1
		US-PATENT-CLASS-156-616.41			US-PATENT-CLASS-377-126			US-PATENT-CLASS-250-461.1
		US-PATENT-CLASS-422-249			US-PATENT-CLASS-377-69			US-PATENT-CLASS-358-113
		US-PATENT-4,863,553			US-PATENT-CLASS-377-79			US-PATENT-CLASS-358-93
N90-21061*	c 17	NASA-CASE-NPO-17280-1-CU			US-PATENT-4,845,728			US-PATENT-CLASS-374-162
		US-PATENT-APPL-SN-195226	N90-21527*	c 60	NASA-CASE-NPO-16859-1-CU			INT-PATENT-CLASS-C30B-7/02
		US-PATENT-CLASS-371-041			US-PATENT-APPL-SN-113956			NASA-CASE-MFS-28206-1-SB
		US-PATENT-CLASS-371-043			US-PATENT-CLASS-364-229.4			US-Patent-4,886,646
		US-PATENT-CLASS-371-37.4			US-PATENT-CLASS-364-267.9			US-PATENT-APPL-SN-172101
		US-PATENT-CLASS-371-38.1			US-PATENT-CLASS-364-940.67			US-PATENT-CLASS-156-DIG.62
		US-PATENT-4,907,233			US-PATENT-CLASS-364-942.51			US-PATENT-CLASS-156-DIG.72
N90-21118*	c 23	NASA-CASE-LAR-13965-1-CU			US-PATENT-CLASS-364-944			US-PATENT-CLASS-156-600
		US-PATENT-APPL-SN-221386			US-PATENT-CLASS-364-975.5			US-PATENT-CLASS-156-608
		US-PATENT-CLASS-526-262			US-PATENT-CLASS-371-11.3			US-PATENT-CLASS-422-245
		US-PATENT-CLASS-528-322			US-PATENT-4,868,818			INT-PATENT-CLASS-B64C-9/02
		US-PATENT-CLASS-548-400	N90-21822*	c 24	NASA-CASE-LAR-12887-3			INT-PATENT-CLASS-B64C-9/08
		US-PATENT-CLASS-548-524			US-PATENT-APPL-SN-323236			NASA-CASE-LAR-13983-1
		US-PATENT-4,851,544			US-PATENT-CLASS-181-286			US-PATENT-APPL-SN-192563
N90-21170*	c 26	NASA-CASE-LAR-13817-1			US-PATENT-CLASS-181-290			US-PATENT-CLASS-244-45A
		US-PATENT-APPL-SN-210486			US-PATENT-CLASS-89-36.02			US-PATENT-CLASS-244-46
		US-PATENT-CLASS-073-801			US-PATENT-4,911,062			US-PATENT-CLASS-244-75R
		US-PATENT-CLASS-324-209	N90-21951*	c 33	NASA-CASE-NPO-17430-1-CU			
		US-PATENT-CLASS-324-226			US-PATENT-APPL-SN-332677			

		US-PATENT-CLASS-244-90R	N90-23566*	c 27 ..	INT-PATENT-CLASS-B29B-33/02			NASA-CASE-LAR-13963-1
		US-PATENT-4,917,333			NASA-CASE-MSC-20782-1			US-PATENT-APPL-SN-232735
N90-23415*	c 09 ...	INT-PATENT-CLASS-C21D-1/09			US-PATENT-APPL-SN-213392			US-PATENT-CLASS-356-73
		NASA-CASE-MFS-28281-1			US-PATENT-CLASS-264-11			US-PATENT-CLASS-356-73.1
		US-PATENT-APPL-SN-205898			US-PATENT-CLASS-264-28			US-PATENT-4,890,915
		US-PATENT-CLASS-148-149			US-PATENT-CLASS-264-43	N90-24168*	c 76 ..	INT-PATENT-CLASS-B32B-15/08
		US-PATENT-CLASS-148-4			US-PATENT-CLASS-264-6			INT-PATENT-CLASS-B32B-7/02
		US-PATENT-CLASS-148-902			US-PATENT-4,919,852			NASA-CASE-LAR-13678-1
		US-PATENT-CLASS-148-903	N90-23586*	c 31	INT-PATENT-CLASS-B23K-9/16			US-PATENT-APPL-SN-176547
		US-PATENT-4,902,354			NASA-CASE-MFS-29489-1			US-PATENT-CLASS-340-692
N90-23475*	c 23	INT-PATENT-CLASS-C07S-9/40			US-PATENT-APPL-SN-279625			US-PATENT-CLASS-428-216
		NASA-CASE-ARC-11425-3			US-PATENT-CLASS-219-136			US-PATENT-CLASS-428-450
		US-PATENT-APPL-SN-054982			US-PATENT-CLASS-219-75			US-PATENT-CLASS-428-457
		US-PATENT-APPL-SN-493864			US-PATENT-4,879,446			US-PATENT-CLASS-428-901
		US-PATENT-APPL-SN-522629	N90-23587*	c 31	NASA-CASE-NPO-17301-1-CU	N90-24169*	c 76	US-PATENT-4,917,940
		US-PATENT-APPL-SN-641152			US-PATENT-APPL-SN-337767			NASA-CASE-MFS-28182-1
		US-PATENT-CLASS-558-193			US-PATENT-CLASS-122-366			US-PATENT-APPL-SN-161681
		US-PATENT-4,886,896			US-PATENT-CLASS-165-104.26			US-PATENT-CLASS-156-DIG.113
N90-23480*	c 24	NASA-CASE-MFS-29241-1			US-PATENT-CLASS-165-41			US-PATENT-CLASS-156-DIG.62
		US-PATENT-APPL-SN-252078			US-PATENT-CLASS-222-187			US-PATENT-CLASS-156-600
		US-PATENT-CLASS-244-158A			US-PATENT-CLASS-239-145			US-PATENT-CLASS-156-601
		US-PATENT-CLASS-428-607			US-PATENT-CLASS-417-53			US-PATENT-CLASS-156-607
		US-PATENT-CLASS-428-623			US-PATENT-CLASS-417-572			US-PATENT-CLASS-422-245
		US-PATENT-CLASS-428-627			US-PATENT-4,877,082			US-PATENT-CLASS-422-50
		US-PATENT-CLASS-428-632	N90-23635*	c 33	INT-PATENT-CLASS-H03B-5/12			US-PATENT-4,919,899
		US-PATENT-CLASS-428-666			NASA-CASE-GSC-13173-1	N90-25196*	c 24	NASA-CASE-LAR-13562-1
		US-PATENT-CLASS-428-680			US-PATENT-APPL-SN-292037			US-PATENT-APPL-SN-921572
		US-PATENT-4,877,689			US-PATENT-CLASS-331-116FE			US-PATENT-CLASS-138-141
N90-23493*	c 24	NASA-CASE-LEW-14719-1			US-PATENT-CLASS-331-117FE			US-PATENT-CLASS-138-149
		US-PATENT-APPL-SN-326757			US-PATENT-4,873,498			US-PATENT-CLASS-138-153
		US-PATENT-CLASS-419-24	N90-23636*	c 33	INT-PATENT-CLASS-G06F-1/02			US-PATENT-CLASS-428-35.9
		US-PATENT-CLASS-419-36			NASA-CASE-NPO-17241-1-CU			US-PATENT-CLASS-428-367
		US-PATENT-CLASS-419-37			US-PATENT-APPL-SN-113954			US-PATENT-CLASS-428-376
		US-PATENT-CLASS-419-8			US-PATENT-CLASS-364-717			US-PATENT-CLASS-428-379
		US-PATENT-CLASS-428-551			US-PATENT-CLASS-364-746.1			US-PATENT-4,923,751
		US-PATENT-CLASS-428-552			US-PATENT-4,890,252	N90-25197*	c 24	NASA-CASE-LAR-13225-1
		US-PATENT-CLASS-75-228	N90-23700*	c 34	INT-PATENT-CLASS-B29B-9/10			US-PATENT-APPL-SN-248018
		US-PATENT-4,904,538			NASA-CASE-NPO-17203-1-CU			US-PATENT-CLASS-156-153
N90-23497*	c 25	NASA-CASE-LEW-14345-2			US-PATENT-APPL-SN-250195			US-PATENT-CLASS-156-249
		US-PATENT-APPL-SN-159071			US-PATENT-CLASS-264-4			US-PATENT-CLASS-156-289
		US-PATENT-APPL-SN-924474			US-PATENT-CLASS-425-5			US-PATENT-CLASS-156-344
		US-PATENT-CLASS-260-386			US-PATENT-CLASS-425-6			US-PATENT-CLASS-427-272
		US-PATENT-CLASS-260-395			US-PATENT-CLASS-425-804			US-PATENT-CLASS-427-282
		US-PATENT-CLASS-549-241			US-PATENT-4,902,450			US-PATENT-CLASS-427-290
		US-PATENT-CLASS-562-413	N90-23706*	c 35	INT-PATENT-CLASS-A61B-5/00			US-PATENT-4,923,545
		US-PATENT-CLASS-562-415			NASA-CASE-LAR-13775-1	N90-25340*	c 36 ...	INT-PATENT-CLASS-G01P-3/36
		US-PATENT-CLASS-562-417			US-PATENT-APPL-SN-248020			NASA-CASE-ARC-11876-1
		US-PATENT-4,885,116			US-PATENT-CLASS-128-675			US-PATENT-APPL-SN-257593
N90-23517*	c 25	NASA-CASE-LAR-14155-1-SB			US-PATENT-CLASS-128-748			US-PATENT-CLASS-356-28
		US-PATENT-APPL-SN-298150			US-PATENT-CLASS-128-778			US-PATENT-CLASS-356-28.5
		US-PATENT-CLASS-502-217			US-PATENT-4,873,990	N90-25498*	c 54	US-PATENT-4,925,297
		US-PATENT-CLASS-502-218	N90-23707*	c 35 ...	INT-PATENT-CLASS-G01M-9/00			NASA-CASE-MSC-21366-1
		US-PATENT-CLASS-502-226			NASA-CASE-LAR-13628-1			US-PATENT-APPL-SN-213880
		US-PATENT-CLASS-502-239			US-PATENT-APPL-SN-251438			US-PATENT-CLASS-428-252
		US-PATENT-CLASS-502-241			US-PATENT-CLASS-340-825.69			US-PATENT-CLASS-428-290
		US-PATENT-CLASS-502-245			US-PATENT-CLASS-73-147			US-PATENT-CLASS-428-328
		US-PATENT-CLASS-502-324			US-PATENT-4,896,533			US-PATENT-CLASS-428-422
		US-PATENT-4,912,082	N90-23712*	c 35 ...	INT-PATENT-CLASS-G01N-3/32			US-PATENT-CLASS-428-447
N90-23541*	c 27 ..	INT-PATENT-CLASS-F28D-15/02			NASA-CASE-LEW-14124-1			US-PATENT-CLASS-428-458
		NASA-CASE-GSC-13199-1			US-PATENT-APPL-SN-396263			US-PATENT-CLASS-428-474.4
		US-PATENT-APPL-SN-304147			US-PATENT-CLASS-73-799			US-PATENT-4,923,741
		US-PATENT-CLASS-122-366			US-PATENT-CLASS-73-845	N90-25583*	c 60	INT-PATENT-CLASS-H02L-9/04
		US-PATENT-CLASS-165-104.26			US-PATENT-4,916,954			NASA-CASE-NPO-17525-1-CU
		US-PATENT-CLASS-165-41	N90-23713*	c 35	NASA-CASE-LAR-14056-1			US-PATENT-APPL-SN-279630
		US-PATENT-CLASS-165-905			US-PATENT-APPL-SN-010949			US-PATENT-CLASS-380-25
		US-PATENT-4,883,116			US-PATENT-APPL-SN-251073			US-PATENT-CLASS-380-45
N90-23544*	c 27 .	INT-PATENT-CLASS-G01N-27/72			US-PATENT-CLASS-364-578			US-PATENT-CLASS-380-49
		INT-PATENT-CLASS-G01R-27/00			US-PATENT-CLASS-364-900			US-PATENT-4,926,481
		INT-PATENT-CLASS-G01R-33/12			US-PATENT-CLASS-364-924.4	N90-26168*	c 31	INT-PATENT-CLASS-B23K-9/24
		NASA-CASE-LAR-13465-1			US-PATENT-CLASS-364-925.1			NASA-CASE-MFS-29491-1
		US-PATENT-APPL-SN-133413			US-PATENT-CLASS-364-933.8			US-PATENT-APPL-SN-279677
		US-PATENT-CLASS-264-40.1			US-PATENT-CLASS-364-934			US-PATENT-CLASS-219-136
		US-PATENT-CLASS-324-234			US-PATENT-4,918,652			US-PATENT-CLASS-219-75
		US-PATENT-CLASS-324-236	N90-23742*	c 37	INT-PATENT-CLASS-F03D-9/00			US-PATENT-4,924,053
		US-PATENT-CLASS-526-60			NASA-CASE-LAR-13434-1	N90-26384* #	c 43	NAS 1.71:NPO-17970-1-CU
		US-PATENT-4,891,591			US-PATENT-APPL-SN-246594			NASA-CASE-NPO-17970-1-CU
N90-23545*	c 27	NASA-CASE-LAR-14188-1			US-PATENT-CLASS-290-44			US-PATENT-APPL-SN-545014
		US-PATENT-APPL-SN-087375			US-PATENT-CLASS-290-55	N90-26518* #	c 60	NAS 1.71:NPO-17939-1-CU
		US-PATENT-APPL-SN-328392			US-PATENT-CLASS-416-9			NASA-CASE-NPO-17939-1-CU
		US-PATENT-CLASS-528-125			US-PATENT-4,894,554			US-PATENT-APPL-SN-543915
		US-PATENT-CLASS-528-126	N90-23751*	c 37 .	INT-PATENT-CLASS-B64D-33/04			NAS 1.71:NPO-17954-1-CU
		US-PATENT-CLASS-528-128			INT-PATENT-CLASS-F16J-15/46			NASA-CASE-NPO-17954-1-CU
		US-PATENT-CLASS-528-171-175			NASA-CASE-LEW-14695-1	N90-26685* #	c 76	US-PATENT-APPL-SN-545019
		US-PATENT-CLASS-528-212			US-PATENT-APPL-SN-292146			NAS 1.71:NPO-17723-1-CU
		US-PATENT-CLASS-548-520			US-PATENT-CLASS-239-265.11			NASA-CASE-NPO-17723-1-CU
		US-PATENT-4,889,912			US-PATENT-CLASS-277-158			US-PATENT-APPL-SN-506137
N90-23546*	c 27	NASA-CASE-LAR-13902-1			US-PATENT-CLASS-277-34	N90-26880* #	c 24	NAS 1.71:NPO-17858-1-CU
		US-PATENT-APPL-SN-239259			US-PATENT-4,917,302			NASA-CASE-NPO-17858-1-CU
		US-PATENT-CLASS-528-125	N90-23756*	c 38 .	INT-PATENT-CLASS-G01B-15/06			US-PATENT-APPL-SN-503487
		US-PATENT-CLASS-528-126			NASA-CASE-LAR-13724-1	N90-26881* #	c 24	NAS 1.71:AR-14338-1
		US-PATENT-CLASS-528-128			US-PATENT-APPL-SN-125678			NASA-CASE-LAR-14338-1
		US-PATENT-CLASS-528-172			US-PATENT-CLASS-378-51			US-PATENT-APPL-SN-429514
		US-PATENT-CLASS-528-185			US-PATENT-CLASS-378-58	N90-26940* #	c 26	NAS 1.71:MFS-26083-1-CU
		US-PATENT-CLASS-528-188			US-PATENT-4,899,356			NASA-CASE-MFS-26083-1-CU
		US-PATENT-CLASS-528-353	N90-24150*	c 76 .	INT-PATENT-CLASS-G01N-21/64			US-PATENT-APPL-SN-531375
		US-PATENT-4,895,972			INT-PATENT-CLASS-G01N-21/84	N90-26955* #	c 27	NAS 1.71:AR-14339-1

N90-26956* #	c 27	NASA-CASE-LAR-14339-1 US-PATENT-APPL-SN-430470 NAS 1.71: LAR-14198-1 NASA-CASE-LAR-14198-1 US-PATENT-APPL-SN-449210 NAS 1.71: NPO-17911-1-CU NASA-CASE-NPO-17911-1-CU US-PATENT-APPL-SN-517114 NAS 1.71: LAR-14078-1-CU NASA-CASE-LAR-14078-1-CU US-PATENT-APPL-SN-429737 NAS 1.71: MFS-28384-1 NASA-CASE-MFS-28384-1 US-PATENT-APPL-SN-473064 NAS 1.71: LAR-14142-1 NASA-CASE-LAR-14142-1 US-PATENT-APPL-SN-473030 NAS 1.71: NPO-17653-1-CU NASA-CASE-NPO-17653-1-CU US-PATENT-APPL-SN-501908 NAS 1.71: NPO-17629-1-CU NASA-CASE-NPO-17629-1-CU US-PATENT-APPL-SN-458280 NAS 1.71: MSC-21379-1-SB NASA-CASE-MSC-21379-1-SB US-PATENT-APPL-SN-545170 NAS 1.71: NPO-17835-1-CU NASA-CASE-NPO-17835-1-CU US-PATENT-APPL-SN-524959 NAS 1.71: MFS-28013-3 NASA-CASE-MFS-28013-3 US-PATENT-APPL-SN-545089 NAS 1.71: LEW-14921-1 NASA-CASE-LEW-14921-1 US-PATENT-APPL-SN-571059 NAS 1.71: LAR-14239-1 NASA-CASE-LAR-14239-1 US-PATENT-APPL-SN-555864 NAS 1.71: LAR-14271-1-CU NASA-CASE-LAR-14271-1-CU US-PATENT-APPL-SN-567025 NAS 1.71: LAR-14330-1-CU NASA-CASE-LAR-14330-1-CU US-PATENT-APPL-SN-568128 NAS 1.71: LAR-14036-1 NASA-CASE-LAR-14036-1 US-PATENT-APPL-SN-418372 NAS 1.71: LEW-15027-1 NASA-CASE-LEW-15027-1 US-PATENT-APPL-SN-603055 NAS 1.71: NPO-17904-1-CU NASA-CASE-NPO-17904-1-CU US-PATENT-APPL-SN-544293 NAS 1.71: NPO-17941-1-CU NASA-CASE-NPO-17941-1-CU US-PATENT-APPL-SN-550775 NAS 1.71: LEW-14945-1 NASA-CASE-LEW-14945-1 US-PATENT-APPL-SN-540976 NAS 1.71: NPO-18075-1-CU NASA-CASE-NPO-18075-1-CU US-PATENT-APPL-SN-555865 NAS 1.71: NPO-17479-1-CU NASA-CASE-NPO-17479-1-CU US-PATENT-APPL-SN-568127 NAS 1.71: LEW-14162-1 NASA-CASE-LEW-14162-1 US-PATENT-APPL-SN-501893 NAS 1.71: SSC-00006-1 NASA-CASE-SSC-00006-1 US-PATENT-APPL-SN-489997 INT-PATENT-CLASS-G03H-1/02 NASA-CASE-LAR-13989-1 US-PATENT-APPL-SN-318217 US-PATENT-CLASS-350-3.64 US-PATENT-CLASS-350-320 US-PATENT-CLASS-350-354 US-PATENT-4.913.534 NAS 1.71: MFS-28406-1 NASA-CASE-MFS-28406-1 US-PATENT-APPL-SN-524110 NAS 1.71: MFS-28328-1 NASA-CASE-MFS-28328-1 US-PATENT-APPL-SN-458065 NAS 1.71: LEW-14965-1 NASA-CASE-LEW-14965-1 US-PATENT-APPL-SN-571062 NAS 1.71: SSC-00008-1 NASA-CASE-SSC-00008-1 US-PATENT-APPL-SN-545178 NAS 1.71: NPO-17914-1-CU NASA-CASE-NPO-17914-1-CU US-PATENT-APPL-SN-575697 NAS 1.71: MSC-21460-1 NASA-CASE-MSC-21460-1 US-PATENT-APPL-SN-587919	N91-13890* #	c 60	NAS 1.71: MSC-21481-1 NASA-CASE-MSC-21481-1 US-PATENT-APPL-SN-506136 NAS 1.71: MSC-21737-1 NASA-CASE-MSC-21737-1 US-PATENT-APPL-SN-587922 NAS 1.71: MSC-21381-1 NASA-CASE-MSC-21381-1 US-PATENT-APPL-SN-545235 NAS 1.71: NPO-17784-1-CU NASA-CASE-NPO-17784-1-CU US-PATENT-APPL-SN-568129 NAS 1.71: MFS-28295-1 NASA-CASE-MFS-28295-1 US-PATENT-APPL-SN-503408 NAS 1.71: GSC-13265-1 NASA-CASE-GSC-13265-1 US-PATENT-APPL-SN-575694 NAS 1.71: MFS-28013-2 NASA-CASE-MFS-28013-2 US-PATENT-APPL-SN-545220 INT-PATENT-CLASS-G01S-5/02 NASA-CASE-NPO-17820-1-CU US-PATENT-APPL-SN-429734 US-PATENT-CLASS-329-306 US-PATENT-CLASS-342-352 US-PATENT-CLASS-342-357 US-PATENT-CLASS-342-418 US-PATENT-CLASS-375-80 US-PATENT-CLASS-375-94 US-PATENT-4.959.656 INT-PATENT-CLASS-B64D-33/00 NASA-CASE-LAR-14116-1 US-PATENT-APPL-SN-004304 US-PATENT-APPL-SN-243685 US-PATENT-APPL-SN-264993 US-PATENT-CLASS-244-199 US-PATENT-CLASS-244-58 US-PATENT-CLASS-290-44 US-PATENT-CLASS-290-55 US-PATENT-4.917.332 NASA-CASE-LAR-13629-1 US-PATENT-APPL-SN-251411 US-PATENT-CLASS-33-263 US-PATENT-CLASS-342-54 US-PATENT-CLASS-356-1 US-PATENT-CLASS-356-141 US-PATENT-CLASS-356-152 US-PATENT-CLASS-364-433 US-PATENT-CLASS-73-147 US-PATENT-4.932.777 INT-PATENT-CLASS-G01M-9/00 NASA-CASE-ARC-11877-1-SB US-PATENT-APPL-SN-195563 US-PATENT-CLASS-73-147 US-PATENT-4.845.993 INT-PATENT-CLASS-G06F-15/20 NASA-CASE-MSC-21170-1 US-PATENT-APPL-SN-182266 US-PATENT-CLASS-324-115 US-PATENT-CLASS-364-487 US-PATENT-CLASS-364-550 US-PATENT-4.974.181 INT-PATENT-CLASS-B64G-1/64 NASA-CASE-MSC-21360-1 US-PATENT-APPL-SN-292131 US-PATENT-CLASS-14-71.5 US-PATENT-CLASS-244-137.2 US-PATENT-CLASS-244-161 US-PATENT-CLASS-405-188 US-PATENT-4.860.975 INT-PATENT-CLASS-G01W-1/00 NASA-CASE-LAR-13392-1-CU US-PATENT-APPL-SN-369490 US-PATENT-CLASS-73-170R US-PATENT-4.964.300 INT-PATENT-CLASS-C08G-73/10 NASA-CASE-LAR-13965-2-CU US-PATENT-APPL-SN-221386 US-PATENT-APPL-SN-311551 US-PATENT-CLASS-526-262 US-PATENT-CLASS-528-322 US-PATENT-4.895.915 INT-PATENT-CLASS-C07D-207/44 NASA-CASE-LAR-14188-2 US-PATENT-APPL-SN-087375 US-PATENT-APPL-SN-328392 US-PATENT-APPL-SN-391692 US-PATENT-CLASS-548-549 US-PATENT-4.937.356 INT-PATENT-CLASS-G01N-3/00 NASA-CASE-LAR-13985-1 US-PATENT-APPL-SN-386172 US-PATENT-CLASS-73-794 US-PATENT-4.926.694 INT-PATENT-CLASS-B22D-27/04	N91-14489* #	c 27	INT-PATENT-CLASS-H02K-44/10 NASA-CASE-NPO-17122-1-CU US-PATENT-APPL-SN-087376 US-PATENT-CLASS-310-11 US-PATENT-4.928.027 NASA-CASE-KSC-11304-2 US-PATENT-APPL-SN-603375 US-PATENT-APPL-SN-798713 US-PATENT-CLASS-423-655 US-PATENT-CLASS-48-197R US-PATENT-CLASS-48-203 US-PATENT-CLASS-48-77 US-PATENT-CLASS-60-39.12 US-PATENT-CLASS-60-39.182 US-PATENT-4.936.869 INT-PATENT-CLASS-B23K-26/00 NASA-CASE-MFS-28294-1 US-PATENT-APPL-SN-396262 US-PATENT-CLASS-219-121.68 US-PATENT-4.965.429 INT-PATENT-CLASS-H04L-27/18 NASA-CASE-NPO-16904-2-CU US-PATENT-APPL-SN-246032 US-PATENT-APPL-SN-829876 US-PATENT-CLASS-371-43 US-PATENT-CLASS-375-53 US-PATENT-CLASS-375-57 US-PATENT-4.945.549 INT-PATENT-CLASS-H07M-10/39 INT-PATENT-CLASS-H07M-4/60 NASA-CASE-NPO-17604-1-CU US-PATENT-APPL-SN-404288 US-PATENT-CLASS-252-62.2 US-PATENT-CLASS-429-104 US-PATENT-CLASS-429-213 US-PATENT-4.966.823 INT-PATENT-CLASS-H01L-43/00 NASA-CASE-MSC-21428-1 US-PATENT-APPL-SN-343652 US-PATENT-CLASS-320-51 US-PATENT-CLASS-338-221 US-PATENT-CLASS-338-32 US-PATENT-4.973.936 INT-PATENT-CLASS-H01M-6/20 NASA-CASE-NPO-17640-1-CU US-PATENT-APPL-SN-405169 US-PATENT-CLASS-429-103 US-PATENT-CLASS-429-120 US-PATENT-4.945.012 INT-PATENT-CLASS-H01F-27/30 NASA-CASE-NPO-17830-1-CU US-PATENT-APPL-SN-443297 US-PATENT-CLASS-336-198 US-PATENT-CLASS-336-205 US-PATENT-CLASS-336-229 US-PATENT-4.975.672 INT-PATENT-CLASS-H03D-1/00 NASA-CASE-GSC-13237-1 US-PATENT-APPL-SN-418612 US-PATENT-CLASS-328-151 US-PATENT-CLASS-329-363 US-PATENT-4.973.914 INT-PATENT-CLASS-H01L-27/14 NASA-CASE-NPO-17258-1-CU US-PATENT-APPL-SN-283673 US-PATENT-CLASS-357-15 US-PATENT-CLASS-357-29 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-32 US-PATENT-CLASS-357-58 US-PATENT-4.954.864 INT-PATENT-CLASS-G01R-1/04 NASA-CASE-LEW-14746-1 US-PATENT-APPL-SN-392239 US-PATENT-CLASS-324-158F US-PATENT-CLASS-324-158P US-PATENT-CLASS-324-601 US-PATENT-CLASS-333-247 US-PATENT-4.980.636 INT-PATENT-CLASS-B64H-21/00 NASA-CASE-LAR-13532-1 US-PATENT-APPL-SN-838649 US-PATENT-CLASS-114-67A US-PATENT-CLASS-244-130 US-PATENT-CLASS-244-203 US-PATENT-CLASS-244-204 US-PATENT-4.932.610 INT-PATENT-CLASS-F16K-3/316 INT-PATENT-CLASS-F16K-3/32 INT-PATENT-CLASS-F16K-37/00 NASA-CASE-MFS-28383-1
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N91-15511

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N91-15512*	c 35	NASACASE-MSC-21059-2 US-PATENT-APPL-SN-217725 US-PATENT-APPL-SN-396726 US-PATENT-CLASS-73-149 US-PATENT-4,956,996 INT-PATENT-CLASS-G01B-11/26 INT-PATENT-CLASS-G01C-1/00 INT-PATENT-CLASS-G01C-3/08 NASACASE-NPO-17436-1-CU US-PATENT-APPL-SN-237035 US-PATENT-CLASS-356-141 US-PATENT-CLASS-356-152 US-PATENT-CLASS-356-5 US-PATENT-4,964,722	N91-21157*	c 09	INT-PATENT-CLASS-G01N-31/12 NASACASE-MSC-21470-1 US-PATENT-APPL-SN-381239 US-PATENT-CLASS-374-8 US-PATENT-CLASS-422-104 US-PATENT-CLASS-422-78 US-PATENT-CLASS-422-80 US-PATENT-CLASS-73-865.6 US-PATENT-4,990,312	N91-21540*	c 37	INT-PATENT-CLASS-G01N-3/20 NASACASE-LEW-14776-1 US-PATENT-APPL-SN-458274 US-PATENT-CLASS-73-852 US-PATENT-4,986,132
N91-15520* #	c 35	NAS 1.71:ARC-11917-1 NASACASE-ARC-11917-1 US-PATENT-APPL-SN-596105 INT-PATENT-CLASS-H01S-3/16 NASACASE-NPO-17282-1-CU US-PATENT-APPL-SN-235150 US-PATENT-CLASS-372-41 US-PATENT-CLASS-372-71 US-PATENT-CLASS-372-75 US-PATENT-4,974,230	N91-21175*	c 14	INT-PATENT-CLASS-G01M-3/28 NASACASE-MFS-28376-1 US-PATENT-APPL-SN-361479 US-PATENT-CLASS-73-49.8 US-PATENT-5,000,033	N91-21541*	c 37	INT-PATENT-CLASS-F16M-13/00 NASACASE-LAR-13580-1 US-PATENT-APPL-SN-441673 US-PATENT-CLASS-248-593 US-PATENT-CLASS-248-604 US-PATENT-4,997,158
N91-15528*	c 36	NASACASE-NPO-17282-1-CU US-PATENT-APPL-SN-235150 US-PATENT-CLASS-372-41 US-PATENT-CLASS-372-71 US-PATENT-CLASS-372-75 US-PATENT-4,974,230	N91-21176*	c 14	INT-PATENT-CLASS-G01M-19/00 INT-PATENT-CLASS-G01M-7/02 NASACASE-LAR-14149-1-SB US-PATENT-APPL-SN-357757 US-PATENT-CLASS-73-663 US-PATENT-CLASS-73-865.6 US-PATENT-CLASS-73-866.4 US-PATENT-4,995,272	N91-21542*	c 37	NASACASE-MSC-21476-1 US-PATENT-APPL-SN-392235 US-PATENT-CLASS-318-568.16 US-PATENT-CLASS-318-568.20 US-PATENT-CLASS-318-568.21 US-PATENT-CLASS-364-513 US-PATENT-CLASS-901-33 US-PATENT-CLASS-901-37 US-PATENT-CLASS-901-47 US-PATENT-4,980,626
N91-15544*	c 37	INT-PATENT-CLASS-F16C-11/00 NASACASE-LAR-13898-1 US-PATENT-APPL-SN-225427 US-PATENT-CLASS-403-146 US-PATENT-CLASS-403-147 US-PATENT-CLASS-403-156 US-PATENT-CLASS-403-334 US-PATENT-4,932,807	N91-21221*	c 18	INT-PATENT-CLASS-B25G-3/00 NASACASE-MSC-21504-1 US-PATENT-APPL-SN-516856 US-PATENT-CLASS-403-171 US-PATENT-CLASS-403-176 US-PATENT-CLASS-403-252 US-PATENT-CLASS-52-646 US-PATENT-4,998,842	N91-21543*	c 37	INT-PATENT-CLASS-F16M-13/00 NASACASE-MSC-21502-1 US-PATENT-APPL-SN-470663 US-PATENT-CLASS-DIG-4 US-PATENT-CLASS-248-181 US-PATENT-CLASS-248-650 US-PATENT-CLASS-248-677 US-PATENT-CLASS-254-101 US-PATENT-CLASS-403-131 US-PATENT-5,000,416
N91-15661* #	c 47	NAS 1.71:MFS-26102-1-CU NASACASE-MFS-26102-1-CU US-PATENT-APPL-SN-571687 NASACASE-NPO-16306-1-CU US-PATENT-APPL-SN-718798 US-PATENT-CLASS-118-405 US-PATENT-CLASS-118-407 US-PATENT-CLASS-118-419 US-PATENT-CLASS-118-428 US-PATENT-CLASS-156-608 US-PATENT-CLASS-156-617.1 US-PATENT-CLASS-156-620.1 US-PATENT-4,861,416	N91-21222*	c 18	INT-PATENT-CLASS-B24G-1/00 NASACASE-MSC-21534-1 US-PATENT-APPL-SN-480985 US-PATENT-CLASS-244-14 US-PATENT-CLASS-244-158R US-PATENT-4,991,788	N91-21544*	c 37	NASACASE-NPO-17801-1-CU US-PATENT-APPL-SN-459029 US-PATENT-CLASS-318-561 US-PATENT-CLASS-318-628 US-PATENT-CLASS-318-646 US-PATENT-CLASS-318-648 US-PATENT-CLASS-364-478 US-PATENT-CLASS-364-513 US-PATENT-CLASS-901-9 US-PATENT-4,999,553
N91-15898*	c 76	NASACASE-NPO-16306-1-CU US-PATENT-APPL-SN-718798 US-PATENT-CLASS-118-405 US-PATENT-CLASS-118-407 US-PATENT-CLASS-118-419 US-PATENT-CLASS-118-428 US-PATENT-CLASS-156-608 US-PATENT-CLASS-156-617.1 US-PATENT-CLASS-156-620.1 US-PATENT-4,861,416	N91-21270*	c 25	INT-PATENT-CLASS-H01S-3/22 NASACASE-LAR-14155-2-SB US-PATENT-APPL-SN-298150 US-PATENT-APPL-SN-443406 US-PATENT-CLASS-372-59 US-PATENT-CLASS-423-247 US-PATENT-CLASS-502-324 US-PATENT-CLASS-502-34 US-PATENT-4,991,181	N91-21545*	c 37	INT-PATENT-CLASS-B25B-11/00 INT-PATENT-CLASS-G02B-21/26 INT-PATENT-CLASS-G02B-21/32 NASACASE-MFS-28420-1 US-PATENT-APPL-SN-523675 US-PATENT-CLASS-269-21 US-PATENT-CLASS-350-529 US-PATENT-4,981,345
N91-16707* #	c 71	NAS 1.71:LAR-14361-1 NASACASE-LAR-14361-1 US-PATENT-APPL-SN-587920 NAS 1.71:MFS-26061-1 NASACASE-MFS-26061-1 US-PATENT-APPL-SN-575708	N91-21434*	c 33	INT-PATENT-CLASS-H01L-27/14 NASACASE-NPO-17426-1-CU US-PATENT-APPL-SN-363815 US-PATENT-CLASS-357-15 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-67S US-PATENT-CLASS-357-71S US-PATENT-4,990,988	N91-21621*	c 43	INT-PATENT-CLASS-G01S-13/86 INT-PATENT-CLASS-G01S-13/89 NASACASE-NPO-17937-1-CU US-PATENT-APPL-SN-493190 US-PATENT-CLASS-342-26 US-PATENT-CLASS-342-357 US-PATENT-CLASS-342-52 US-PATENT-4,990,922
N91-16815* #	c 76	NAS 1.71:MFS-26061-1 NASACASE-MFS-26061-1 US-PATENT-APPL-SN-575708 INT-PATENT-CLASS-C07C-15/16 NASACASE-LEW-14345-3 US-PATENT-APPL-SN-159071 US-PATENT-APPL-SN-						

				US-PATENT-APPL-SN-140185	US-PATENT-APPL-SN-443539			US-PATENT-5,005,954
				US-PATENT-APPL-SN-338379	US-PATENT-CLASS-329-304	N91-26966*	c 76	NAS 1.71:LEW-15222-1
				US-PATENT-CLASS-313-502	US-PATENT-CLASS-375-53			NASA-CASE-LEW-15222-1
				US-PATENT-CLASS-313-503	US-PATENT-CLASS-375-86			US-PATENT-APPL-SN-718315
				US-PATENT-CLASS-313-506	US-PATENT-5,025,455	N91-26967*	c 76	NAS 1.71:LEW-15223-1
				US-PATENT-CLASS-428-690	INT-PATENT-CLASS-B64G-1/28			NASA-CASE-LEW-15223-1
				US-PATENT-4,987,339	NASA-CASE-NPO-17204-1-CU	N91-26968*	c 76	US-PATENT-APPL-SN-718314
N91-23180*	c 07			NAS 1.71:LEW-15094-1	US-PATENT-APPL-SN-473242			NAS 1.71:MFS-28473-1
				NASA-CASE-LEW-15094-1	US-PATENT-CLASS-114-122			NASA-CASE-MFS-28473-1
				US-PATENT-APPL-SN-647902	US-PATENT-CLASS-114-125			US-PATENT-APPL-SN-717447
N91-23271*	c 25			NAS 1.71:MSC-21577-1-SB	US-PATENT-CLASS-244-164	N91-27139*	c 02	INT-PATENT-CLASS-B64C-17/00
				NASA-CASE-MSC-21577-1-SB	US-PATENT-CLASS-244-165			NASA-CASE-LAR-14322-1
				US-PATENT-APPL-SN-748933	US-PATENT-5,026,008			US-PATENT-APPL-SN-603335
N91-23410*	c 34			NAS 1.71:LAR-13563-1	NAS 1.71:MFS-28563-1			US-PATENT-CLASS-244-113
				NASA-CASE-LAR-13563-1	NASA-CASE-MFS-28563-1			US-PATENT-CLASS-244-139
				US-PATENT-APPL-SN-608494	US-PATENT-APPL-SN-710193			US-PATENT-CLASS-244-75R
N91-23492*	c 37			NAS 1.71:MSC-21555-1	NAS 1.71:LAR-14556-1	N91-27156*	c 05	INT-PATENT-CLASS-B64C-7/00
				NASA-CASE-MSC-21555-1	NASA-CASE-LAR-14556-1			INT-PATENT-CLASS-B64D-1/02
				US-PATENT-APPL-SN-656925	US-PATENT-APPL-SN-699289			NASA-CASE-LAR-13875-1
N91-23493*	c 37			NAS 1.71:MSC-21730-1	NAS 1.71:MSC-21763-1			US-PATENT-APPL-SN-250468
				NASA-CASE-MSC-21730-1	NASA-CASE-MSC-21763-1			US-PATENT-CLASS-244-118.1
				US-PATENT-APPL-SN-660755	US-PATENT-APPL-SN-671603			US-PATENT-CLASS-244-130
N91-23976*	c 82			NAS 1.71:SSC-00010-1	INT-PATENT-CLASS-G06F-12/00			US-PATENT-CLASS-244-137.4
				NASA-CASE-SSC-00010-1	NASA-CASE-NPO-17197-1-CU			US-PATENT-5,018,688
				US-PATENT-APPL-SN-591643	US-PATENT-APPL-SN-292124	N91-27175*	c 14	INT-PATENT-CLASS-F27B-5/14
N91-25155*	c 09			NAS 1.71:MFS-28493-1	US-PATENT-CLASS-364-200			INT-PATENT-CLASS-F27D-11/10
				NASA-CASE-MFS-28493-1	US-PATENT-CLASS-364-281			INT-PATENT-CLASS-G01N-3/08
				US-PATENT-APPL-SN-678780	US-PATENT-CLASS-364-281.3			NASA-CASE-LEW-14848-1
N91-25167*	c 18			NAS 1.71:MFS-28524-1	US-PATENT-CLASS-364-281.6			US-PATENT-APPL-SN-382885
				NASA-CASE-MFS-28524-1	US-PATENT-5,031,089			US-PATENT-CLASS-219-390
				US-PATENT-APPL-SN-691610	NASA-CASE-MSC-21509-1			US-PATENT-CLASS-374-49
N91-25185*	c 23			INT-PATENT-CLASS-C07C-15/16	US-PATENT-APPL-SN-560924			US-PATENT-CLASS-374-50
				NASA-CASE-LEW-14345-4	US-PATENT-CLASS-350-162.13			US-PATENT-CLASS-73-826
				US-PATENT-APPL-SN-292049	US-PATENT-CLASS-350-3.68			US-PATENT-5,015,825
				US-PATENT-APPL-SN-419554	US-PATENT-CLASS-382-31	N91-27199*	c 18	INT-PATENT-CLASS-E04H-12/18
				US-PATENT-CLASS-552-101	US-PATENT-CLASS-382-32			NASA-CASE-LAR-13490-1
				US-PATENT-CLASS-552-108	US-PATENT-CLASS-382-43			US-PATENT-APPL-SN-899683
				US-PATENT-CLASS-552-110	US-PATENT-CLASS-382-49			US-PATENT-CLASS-403-72
				US-PATENT-CLASS-552-113	US-PATENT-CLASS-382-6			US-PATENT-CLASS-52-646
				US-PATENT-CLASS-552-115	US-PATENT-5,029,220			US-PATENT-5,016,418
N91-25199*	c 24			US-PATENT-5,011,955	INT-PATENT-CLASS-H01L-27/02	N91-27200*	c 18	INT-PATENT-CLASS-G02B-5/122
				NASA-CASE-LAR-13562-2	INT-PATENT-CLASS-H01L-29/161			NASA-CASE-MFS-28419-1
				US-PATENT-APPL-SN-486668	NASA-CASE-NPO-18101-1-CU			US-PATENT-APPL-SN-431538
				US-PATENT-APPL-SN-921572	US-PATENT-APPL-SN-596133			US-PATENT-CLASS-350-102
				US-PATENT-CLASS-156-172	US-PATENT-CLASS-357-16			US-PATENT-CLASS-350-107
				US-PATENT-CLASS-156-187	US-PATENT-CLASS-357-17			US-PATENT-CLASS-350-97
				US-PATENT-CLASS-156-625	US-PATENT-CLASS-357-30			US-PATENT-5,020,876
				US-PATENT-CLASS-156-634	US-PATENT-CLASS-357-34	N91-27201*	c 18	INT-PATENT-CLASS-B64G-1/42
				US-PATENT-CLASS-264-257	US-PATENT-CLASS-357-46			NASA-CASE-GSC-13197-1
				US-PATENT-CLASS-264-261	US-PATENT-5,027,182			US-PATENT-APPL-SN-344872
				US-PATENT-5,008,061	INT-PATENT-CLASS-B23K-9/00			US-PATENT-CLASS-244-159
N91-25200*	c 24			NASA-CASE-LAR-14107-1	NASA-CASE-LEW-14901-1			US-PATENT-5,020,743
				US-PATENT-APPL-SN-105846	US-PATENT-APPL-SN-376488	N91-27220*	c 23	INT-PATENT-CLASS-C08G-14/00
				US-PATENT-APPL-SN-262268	US-PATENT-CLASS-219-121.47			INT-PATENT-CLASS-C08G-8/02
				US-PATENT-CLASS-264-136	US-PATENT-CLASS-219-121.48			NASA-CASE-LAR-13992-1-CU
				US-PATENT-CLASS-264-257	US-PATENT-CLASS-219-121.52			US-PATENT-APPL-SN-248009
				US-PATENT-CLASS-264-331.12	US-PATENT-CLASS-219-76.16			US-PATENT-CLASS-528-125
				US-PATENT-CLASS-525-432	US-PATENT-CLASS-427-34			US-PATENT-CLASS-528-126
				US-PATENT-CLASS-528-350	US-PATENT-4,990,739			US-PATENT-CLASS-528-128
				US-PATENT-CLASS-528-352	NAS 1.71:14846-2			US-PATENT-CLASS-528-219
N91-25202*	c 24			US-PATENT-5,004,575	NASA-CASE-LEW-14846-2			US-PATENT-CLASS-528-220
				NAS 1.71:LEW-15020-2	US-PATENT-APPL-SN-709907	N91-27244*	c 24	NASA-CASE-LEW-14902-1
				NASA-CASE-LEW-15020-2	INT-PATENT-CLASS-H03D-1/04			US-PATENT-APPL-SN-571058
				US-PATENT-APPL-SN-708255	NASA-CASE-GSC-13179-1			US-PATENT-CLASS-419-14
N91-25296*	c 27			INT-PATENT-CLASS-B23H-9/00	US-PATENT-APPL-SN-414815			US-PATENT-CLASS-419-30
				NASA-CASE-LEW-14679-1	US-PATENT-CLASS-307-353			US-PATENT-CLASS-419-32
				US-PATENT-APPL-SN-381240	US-PATENT-CLASS-329-349			US-PATENT-CLASS-419-38
				US-PATENT-CLASS-219-69.11	US-PATENT-CLASS-329-361			US-PATENT-CLASS-419-39
				US-PATENT-5,012,062	US-PATENT-5,015,963			US-PATENT-CLASS-419-49
N91-25298*	c 27			NAS 1.71:LEW-15164-1	NAS 1.71:MFS-28458-1			US-PATENT-5,034,187
				NASA-CASE-LEW-15164-1	NASA-CASE-MFS-28458-1	N91-27372*	c 27	NASA-CASE-NPO-17633-1-CU
				US-PATENT-APPL-SN-699130	US-PATENT-APPL-SN-710192			US-PATENT-APPL-SN-418611
N91-25305*	c 31			INT-PATENT-CLASS-F16L-55/04	NAS 1.71:MFS-28521-1			US-PATENT-CLASS-528-220
				NASA-CASE-MSC-21703-1	US-PATENT-APPL-SN-657586			US-PATENT-CLASS-528-222
				US-PATENT-APPL-SN-603052	NASA-CASE-MSC-21025-3			US-PATENT-CLASS-528-225
				US-PATENT-CLASS-138-26	US-PATENT-APPL-SN-035401			US-PATENT-CLASS-528-227
				US-PATENT-CLASS-138-30	US-PATENT-APPL-SN-392174			US-PATENT-CLASS-528-228
				US-PATENT-5,027,860	US-PATENT-CLASS-83-203			US-PATENT-CLASS-528-230
N91-25306*	c 31			NAS 1.71:MFS-28545-1	US-PATENT-CLASS-83-206			US-PATENT-CLASS-528-233
				NASA-CASE-MFS-28545-1	US-PATENT-CLASS-83-277			US-PATENT-5,011,907
				US-PATENT-APPL-SN-674636	US-PATENT-CLASS-83-282	N91-27385*	c 31	INT-PATENT-CLASS-F28F-7/00
N91-25316*	c 32			INT-PATENT-CLASS-H04B-1/10	US-PATENT-CLASS-83-614			NASA-CASE-NPO-17806-1-CU
				NASA-CASE-NPO-16987-1-CU	US-PATENT-CLASS-83-649			US-PATENT-APPL-SN-560908
				US-PATENT-APPL-SN-203374	US-PATENT-5,005,457			US-PATENT-CLASS-136-204
				US-PATENT-CLASS-375-53	NASA-CASE-NPO-17512-1-CU			US-PATENT-CLASS-165-1
				US-PATENT-CLASS-375-56	US-PATENT-APPL-SN-310992			US-PATENT-CLASS-165-185
				US-PATENT-CLASS-375-85	US-PATENT-CLASS-350-353			US-PATENT-5,031,689
				US-PATENT-CLASS-375-97	US-PATENT-CLASS-350-354	N91-27439*	c 32	INT-PATENT-CLASS-H04L-27/22
N91-25317*	c 32			INT-PATENT-CLASS-G06F-15/20	US-PATENT-CLASS-350-358			NASA-CASE-NPO-17896-1-CU
				NASA-CASE-MSC-21334-1	US-PATENT-CLASS-364-713			US-PATENT-APPL-SN-560691
				US-PATENT-APPL-SN-292130	US-PATENT-CLASS-364-822			US-PATENT-CLASS-329-304
				US-PATENT-CLASS-364-578	US-PATENT-CLASS-364-837			US-PATENT-CLASS-375-53
				US-PATENT-5,005,147	US-PATENT-CLASS-364-841			US-PATENT-CLASS-375-56
N91-25318*	c 32			INT-PATENT-CLASS-H04L-27/18				
				NASA-CASE-NPO-17853-1-CU				

			US-PATENT-CLASS-375-85				NASA-CASE-NPO-17703-1-CU			US-PATENT-CLASS-112-440
			US-PATENT-CLASS-375-86				US-PATENT-APPL-SN-359801			US-PATENT-CLASS-428-285
			US-PATENT-5,017,883				US-PATENT-CLASS-356-5			US-PATENT-5,038,693
N91-27478*	c 33	...	INT-PATENT-CLASS-H01M-4/04				US-PATENT-CLASS-455-605	N91-31258*	c 25	INT-PATENT-CLASS-H01L-21/306
			INT-PATENT-CLASS-H01M-4/58				US-PATENT-5,031,234			NASA-CASE-ARC-11873-2
			NASA-CASE-NPO-17809-1-CU				NASA-CASE-NPO-17678-1-CU			US-PATENT-APPL-SN-150169
			US-PATENT-APPL-SN-503409				US-PATENT-APPL-SN-357758			US-PATENT-APPL-SN-347591
			US-PATENT-CLASS-29-623.5				US-PATENT-CLASS-357-82			US-PATENT-CLASS-156-345
			US-PATENT-CLASS-429-223				US-PATENT-CLASS-437-187			US-PATENT-CLASS-156-643
			US-PATENT-5,019,470				US-PATENT-CLASS-437-197			US-PATENT-CLASS-156-668
N91-27479*	c 33	....	INT-PATENT-CLASS-G05F-1/12				US-PATENT-CLASS-437-199			US-PATENT-CLASS-204-192.32
			NASA-CASE-GSC-13280-1				US-PATENT-CLASS-437-247			US-PATENT-CLASS-437-229
			US-PATENT-APPL-SN-418373				US-PATENT-CLASS-437-248			US-PATENT-5,007,983
			US-PATENT-CLASS-323-311				US-PATENT-5,019,533	N91-31307*	c 27	INT-PATENT-CLASS-C08F-283/00
			US-PATENT-CLASS-323-312				NAS 1.71:LAR-13548-1			INT-PATENT-CLASS-C08F-283/04
			US-PATENT-5,021,729				NASA-CASE-LAR-13548-1			INT-PATENT-CLASS-C08G-16/00
N91-27504*	c 34	....	INT-PATENT-CLASS-F16K-31/32				US-PATENT-APPL-SN-721039			INT-PATENT-CLASS-C08G-73/10
			INT-PATENT-CLASS-F16K-31/06				NAS 1.71:LAR-14272-1-CU			NASA-CASE-LAR-13910-2-CU
			NASA-CASE-MSC-21549-1				NASA-CASE-LAR-14272-1-CU			US-PATENT-APPL-SN-218792
			US-PATENT-APPL-SN-507553				US-PATENT-APPL-SN-678553			US-PATENT-APPL-SN-347558
			US-PATENT-CLASS-251-129.15				NAS 1.71:MSC-21793-1			US-PATENT-CLASS-525-422
			US-PATENT-CLASS-251-148				NASA-CASE-MSC-21793-1			US-PATENT-CLASS-525-471
			US-PATENT-CLASS-251-205				US-PATENT-APPL-SN-731829			US-PATENT-5,021,518
			US-PATENT-CLASS-251-326				NAS 1.71:LEW-15077-2	N91-31476*	c 31	.. INT-PATENT-CLASS-B23K-20/08
			US-PATENT-CLASS-251-363				NASA-CASE-LEW-15077-2			NASA-CASE-LAR-14096-1
			US-PATENT-5,020,774				US-PATENT-APPL-SN-735548			US-PATENT-APPL-SN-591644
N91-27522*	c 35	.	INT-PATENT-CLASS-H04R-25/00				NAS 1.71:LEW-14474-1			US-PATENT-CLASS-228-107
			NASA-CASE-GSC-13027-1-CU				NASA-CASE-LEW-14474-1			US-PATENT-CLASS-228-2.5
			US-PATENT-APPL-SN-363807				US-PATENT-APPL-SN-720133			US-PATENT-5,050,789
			US-PATENT-CLASS-381-26				NAS 1.71:LAR-13645-1	N91-31528*	c 33	. INT-PATENT-CLASS-G05B-19/42
			US-PATENT-CLASS-381-68.1				NASA-CASE-LAR-13645-1			NASA-CASE-NPO-17134-1-CU
			US-PATENT-CLASS-381-92				US-PATENT-APPL-SN-721038			US-PATENT-APPL-SN-172105
			US-PATENT-5,029,216				NAS 1.71:LAR-14206-1			US-PATENT-CLASS-318-568.1
N91-27560*	c 37	.	INT-PATENT-CLASS-B64D-33/04				NASA-CASE-LAR-14206-1			US-PATENT-CLASS-318-568.2
			INT-PATENT-CLASS-F16J-15/46				US-PATENT-APPL-SN-429574			US-PATENT-CLASS-318-573
			NASA-CASE-LEW-14672-1				NAS 1.71:LAR-13832-1			US-PATENT-CLASS-364-513
			US-PATENT-APPL-SN-441672				NASA-CASE-LAR-13832-1			US-PATENT-CLASS-901-19
			US-PATENT-CLASS-239-265.11				US-PATENT-APPL-SN-682151			US-PATENT-5,047,700
			US-PATENT-CLASS-277-157				NAS 1.71:LAR-14483-1	N91-31529*	c 33	..... NASA-CASE-LEW-14676-1
			US-PATENT-CLASS-277-226				NASA-CASE-LAR-14483-1			US-PATENT-APPL-SN-305675
			US-PATENT-CLASS-277-229				US-PATENT-APPL-SN-682153			US-PATENT-CLASS-421-209
			US-PATENT-CLASS-277-34				NAS 1.71:LAR-14395-1-CU			US-PATENT-CLASS-421-457
			US-PATENT-5,014,917				NASA-CASE-LAR-14395-1-CU			US-PATENT-CLASS-505-1
N91-27561*	c 37	....	INT-PATENT-CLASS-B60P-7/15				US-PATENT-APPL-SN-666536			US-PATENT-CLASS-505-701
			INT-PATENT-CLASS-E05C-5/04				NAS 1.71:GSC-13343-1			US-PATENT-CLASS-505-702
			NASA-CASE-LEW-14887-1				NASA-CASE-GSC-13343-1			US-PATENT-CLASS-505-703
			US-PATENT-APPL-SN-503418				US-PATENT-APPL-SN-702529			US-PATENT-CLASS-505-704
			US-PATENT-CLASS-292-60				NAS 1.71:MSC-21625-1	N91-31530*	c 33	.... INT-PATENT-CLASS-H04K-3/00
			US-PATENT-CLASS-292-61				NASA-CASE-MSC-21625-1			NASA-CASE-GSC-12821-2
			US-PATENT-CLASS-410-80				US-PATENT-APPL-SN-716182			US-PATENT-APPL-SN-242254
			US-PATENT-CLASS-410-84				NAS 1.71:GSC-13377-1			US-PATENT-APPL-SN-921576
			US-PATENT-5,032,045				NASA-CASE-GSC-13377-1			US-PATENT-CLASS-455-1
N91-27562*	c 37	.....	NASA-CASE-LAR-14489-1				US-PATENT-APPL-SN-710845			US-PATENT-CLASS-455-102
			US-PATENT-APPL-SN-543926				NAS 1.71:GSC-13348-2			US-PATENT-CLASS-455-99
			US-PATENT-CLASS-264-184				NASA-CASE-GSC-13348-2			US-PATENT-5,014,340
			US-PATENT-CLASS-264-211.15				US-PATENT-APPL-SN-725111	N91-31596*	c 34	.... INT-PATENT-CLASS-G01F-1/00
			US-PATENT-CLASS-264-211.16				INT-PATENT-CLASS-C12M-3/02			NASA-CASE-LAR-13952-2-SB
			US-PATENT-CLASS-264-211.17				NASA-CASE-MSC-21294-1			US-PATENT-APPL-SN-203178
			US-PATENT-CLASS-264-234				US-PATENT-APPL-SN-213558			US-PATENT-APPL-SN-348223
			US-PATENT-CLASS-264-236				US-PATENT-CLASS-261-83			US-PATENT-CLASS-73-432.1
			US-PATENT-CLASS-264-345				US-PATENT-CLASS-435-285			US-PATENT-4,936,146
			US-PATENT-5,023,034				US-PATENT-CLASS-435-286	N91-31608*	c 35	. INT-PATENT-CLASS-G01K-17/06
N91-27614*	c 44	..	INT-PATENT-CLASS-H01L-31/18				US-PATENT-CLASS-435-312			INT-PATENT-CLASS-G01K-17/16
			INT-PATENT-CLASS-H01L-31/42				US-PATENT-CLASS-435-313			NASA-CASE-LEW-14967-1
			NASA-CASE-LEW-14959-1				US-PATENT-CLASS-435-818			US-PATENT-APPL-SN-531433
			US-PATENT-APPL-SN-495969				US-PATENT-5,026,650			US-PATENT-CLASS-136-200
			US-PATENT-CLASS-136-244				INT-PATENT-CLASS-B63C-9/01			US-PATENT-CLASS-250-356.1
			US-PATENT-CLASS-136-249				INT-PATENT-CLASS-B64C-1/22			US-PATENT-CLASS-374-180
			US-PATENT-CLASS-136-256				INT-PATENT-CLASS-B64D-1/08			US-PATENT-CLASS-374-208
			US-PATENT-CLASS-357-30				INT-PATENT-CLASS-B64D-9/00			US-PATENT-CLASS-374-229
			US-PATENT-CLASS-437-2				NASA-CASE-ARC-11909-1			US-PATENT-5,048,973
			US-PATENT-5,019,176				US-PATENT-APPL-SN-418320	N91-31655*	c 37	. INT-PATENT-CLASS-B23D-21/06
N91-27913*	c 71	.....	NASA-CASE-LAR-13968-1				US-PATENT-CLASS-244-137.2			INT-PATENT-CLASS-B26B-27/00
			US-PATENT-APPL-SN-392165				US-PATENT-CLASS-244-183			INT-PATENT-CLASS-B26D-3/16
			US-PATENT-CLASS-181-206				US-PATENT-5,020,742			NASA-CASE-MSC-21469-1
			US-PATENT-CLASS-181-286				INT-PATENT-CLASS-G06F-15/50			US-PATENT-APPL-SN-486458
			US-PATENT-CLASS-181-290				NASA-CASE-LAR-13854-1-CU			US-PATENT-CLASS-30-388
			US-PATENT-CLASS-181-295				US-PATENT-APPL-SN-082766			US-PATENT-CLASS-30-92
			US-PATENT-CLASS-381-71				US-PATENT-APPL-SN-192562			US-PATENT-5,038,473
			US-PATENT-CLASS-381-94				US-PATENT-CLASS-364-427	N91-31656*	c 37	. INT-PATENT-CLASS-B23Q-3/155
			US-PATENT-CLASS-52-144				US-PATENT-CLASS-364-428			NASA-CASE-GSC-13239-1
			US-PATENT-5,024,288				US-PATENT-CLASS-73-178T			US-PATENT-APPL-SN-608657
N91-27914*	c 71	....	INT-PATENT-CLASS-A61B-8/00				US-PATENT-5,047,9421-CU			US-PATENT-CLASS-29-568
			NASA-CASE-LAR-13966-1				INT-PATENT-CLASS-B64C-19/00			US-PATENT-CLASS-294-86.4
			US-PATENT-APPL-SN-422726				NASA-CASE-LAR-14212-1-CU			US-PATENT-CLASS-901-30
			US-PATENT-CLASS-128-660.06				US-PATENT-APPL-SN-565090			US-PATENT-5,044,063
			US-PATENT-CLASS-73-631				US-PATENT-CLASS-244-120	N91-31755*	c 51	..... NASA-CASE-MSC-21585-1
			US-PATENT-5,031,627				US-PATENT-CLASS-244-199			US-PATENT-APPL-SN-493529
N91-27936*	c 72	..	INT-PATENT-CLASS-H01J-37/00				US-PATENT-CLASS-244-75R			US-PATENT-CLASS-422-101
			NASA-CASE-LAR-14250-1-SB				US-PATENT-CLASS-244-87			US-PATENT-CLASS-422-99
			US-PATENT-APPL-SN-531372				US-PATENT-CLASS-244-88			US-PATENT-CLASS-435-30
			US-PATENT-CLASS-250-306				US-PATENT-5,050,819			US-PATENT-CLASS-73-863.22
			US-PATENT-CLASS-250-307				INT-PATENT-CLASS-B32B-7/08			US-PATENT-CLASS-73-863.41
			US-PATENT-CLASS-250-358.1				NASA-CASE-NPO-11907-1-NP			US-PATENT-CLASS-73-863.85
			US-PATENT-5,015,851				US-PATENT-APPL-SN-410576			US-PATENT-CLASS-73-863.86
N91-27957*	c 74	.	INT-PATENT-CLASS-H04B-10/00							

N91-31803* #	c 54	US-PATENT-5,049,492	N91-32515* #	c 38	US-PATENT-5,058,506	N92-10126* #	c 32	NASA-CASE-LAR-14773-1-CU
		INT-PATENT-CLASS-B64G-1/46			NAS 1.71:SSC-00013-1			US-PATENT-APPL-SN-755207
N91-31810*	c 60	NASA-CASE-MSC-21629-1	N91-32546*	c 43	NASA-CASE-SSC-00013-1	N92-10128*	c 32	NAS 1.71:NPO-17836-1-CU
		US-PATENT-APPL-SN-378548			US-PATENT-APPL-SN-740675			NASA-CASE-NPO-17836-1-CU
N91-31885*	c 63	US-PATENT-CLASS-210-748	N91-32795*	c 54	INT-PATENT-CLASS-G01S-13/89	N92-10146* #	c 33	US-PATENT-APPL-SN-716150
		US-PATENT-CLASS-244-159			NASA-CASE-GSC-13212-1			INT-PATENT-CLASS-H04N-7/13
N91-31950*	c 74	US-PATENT-CLASS-244-163	N91-32805* #	c 60	US-PATENT-APPL-SN-391896	N92-10182* #	c 35	NASA-CASE-LEW-14945-2
		US-PATENT-CLASS-47-1.4			US-PATENT-CLASS-342-191			US-PATENT-APPL-SN-540976
N91-32149* #	c 09	US-PATENT-CLASS-47-62	N91-32852*	c 62	US-PATENT-CLASS-342-25	N92-10185*	c 35	US-PATENT-APPL-SN-611214
		US-PATENT-CLASS-55-75			US-PATENT-CLASS-342-26			US-PATENT-CLASS-358-133
N91-32167* #	c 20	US-PATENT-5,005,787	N91-32922*	c 74	US-PATENT-5,053,778	N92-10186*	c 35	US-PATENT-CLASS-358-135
		INT-PATENT-CLASS-G11C-29/00			INT-PATENT-CLASS-A61F-2/58			US-PATENT-5,057,917
N91-32196*	c 25	INT-PATENT-CLASS-H03M-13/00	N91-32924* #	c 74	INT-PATENT-CLASS-A61F-2/68	N92-10202* #	c 39	NAS 1.71:NPO-17734-1-CU
		NASA-CASE-NPO-17394-1-CU			NASA-CASE-MFS-28426-1			NASA-CASE-NPO-17734-1-CU
N91-32230* #	c 27	US-PATENT-APPL-SN-311024	N91-32947* #	c 75	US-PATENT-APPL-SN-508154	N92-10222* #	c 44	US-PATENT-APPL-SN-700830
		US-PATENT-CLASS-365-156			US-PATENT-CLASS-623-62			NAS 1.71:ARC-13823-1
N91-32240*	c 31	US-PATENT-CLASS-365-200	N92-10008* #	c 02	US-PATENT-CLASS-623-63	N92-10331* #	c 61	NASA-CASE-LAR-13823-1
		US-PATENT-CLASS-371-40.1			US-PATENT-5,021,065			US-PATENT-APPL-SN-749737
N91-32248* #	c 36	US-PATENT-5,048,023	N92-10035* #	c 16	NAS 1.71:NPO-17632-1-CU	N92-10609* #	c 71	INT-PATENT-CLASS-G01L-5/16
		INT-PATENT-CLASS-G05B-19/24			NASA-CASE-NPO-17632-1-CU			INT-PATENT-CLASS-G01M-9/00
N91-32249*	c 37	INT-PATENT-CLASS-G06F-15/46	N92-10070*	c 24	US-PATENT-APPL-SN-712796	N92-11186* #	c 27	NASA-CASE-LAR-14419-1
		NASA-CASE-NPO-17401-1-CU			INT-PATENT-CLASS-G06G-7/12			US-PATENT-APPL-SN-14419-1
N91-32509* #	c 37	US-PATENT-APPL-SN-172105	N92-10073*	c 25	NASA-CASE-NPO-17664-1-CU	N92-11198* #	c 27	US-PATENT-APPL-SN-584018
		US-PATENT-APPL-SN-264326			US-PATENT-APPL-SN-463720			US-PATENT-CLASS-73-862.04
N91-32510* #	c 37	US-PATENT-CLASS-318-568.11	N92-10090*	c 27	US-PATENT-CLASS-364-513	N92-11199* #	c 27	US-PATENT-CLASS-73-862.65
		US-PATENT-CLASS-318-573			US-PATENT-CLASS-364-807			US-PATENT-5,056,361
N91-32514*	c 37	US-PATENT-CLASS-364-513	N92-10099*	c 27	US-PATENT-5,056,037	N92-11200* #	c 27	INT-PATENT-CLASS-B43L-13/24
		US-PATENT-5,038,089			INT-PATENT-CLASS-G01B-11/00			NASA-CASE-GSC-13240-1
		INT-PATENT-CLASS-H05B-33/14			NASA-CASE-MSC-21416-1			US-PATENT-APPL-SN-571344
		NASA-CASE-LAR-13616-1			US-PATENT-APPL-SN-545177			US-PATENT-CLASS-33-19.2
		US-PATENT-APPL-SN-140185			US-PATENT-CLASS-356-375			US-PATENT-CLASS-33-23.02
		US-PATENT-CLASS-313-502			US-PATENT-CLASS-356-399			US-PATENT-5,058,281
		US-PATENT-CLASS-313-503			US-PATENT-5,052,807			INT-PATENT-CLASS-F16L-15/00
		US-PATENT-CLASS-313-506			NAS 1.71:NPO-18194-1-CU			NASA-CASE-MSC-21434-1
		US-PATENT-CLASS-313-509			NASA-CASE-NPO-18194-1-CU			US-PATENT-APPL-SN-433881
		US-PATENT-5,047,686			US-PATENT-APPL-SN-700379			US-PATENT-CLASS-285-23
		NAS 1.71:LAR-14424-1-SB			NAS 1.71:NPO-18278-1-CU			US-PATENT-CLASS-285-353
		NASA-CASE-LAR-14424-1-SB			NASA-CASE-NPO-18278-1-CU			US-PATENT-CLASS-285-39
		US-PATENT-APPL-SN-743468			US-PATENT-APPL-SN-747059			US-PATENT-CLASS-285-912
		NAS 1.71:LEW-15200-1			NAS 1.71:NPO-18317-1-CU			US-PATENT-5,058,929
		NASA-CASE-LEW-15200-1			NASA-CASE-NPO-18317-1-CU			NAS 1.71:LAR-14508-1-CU
		US-PATENT-APPL-SN-722446			US-PATENT-APPL-SN-744197			NASA-CASE-LAR-14508-1-CU
		INT-PATENT-CLASS-G01N-25/50			NAS 1.71:MSC-21631-1			US-PATENT-APPL-SN-664194
		NASA-CASE-LAR-14454-1			NASA-CASE-MSC-21631-1			NAS 1.71:LEW-14973-1
		US-PATENT-APPL-SN-426345			US-PATENT-APPL-SN-729107			NASA-CASE-LEW-14973-1
		US-PATENT-APPL-SN-593412			NAS 1.71:LAR-14520-1-SB			US-PATENT-APPL-SN-766593
		US-PATENT-CLASS-102-200			NASA-CASE-LAR-14520-1-SB			NAS 1.71:MSC-21613-1
		US-PATENT-CLASS-374-8			US-PATENT-APPL-SN-743238			NASA-CASE-MSC-21613-1
		US-PATENT-CLASS-73-167			NAS 1.71:LAR-13586-1			US-PATENT-APPL-SN-761566
		US-PATENT-5,052,817			NASA-CASE-LAR-13586-1			NAS 1.71:NPO-18155-1-CU
		NAS 1.71:LEW-15043-1			US-PATENT-APPL-SN-743469			NASA-CASE-NPO-18155-1-CU
		NASA-CASE-LEW-15043-1			INT-PATENT-CLASS-F02R-9/52			US-PATENT-APPL-SN-658477
		US-PATENT-APPL-SN-772181			NASA-CASE-LEW-14846-1			INT-PATENT-CLASS-B05D-5/12
		NASA-CASE-NPO-16635-1-CU			US-PATENT-APPL-SN-443523			INT-PATENT-CLASS-C23F-1/00
		US-PATENT-APPL-SN-858054			US-PATENT-CLASS-60-240			NASA-CASE-NPO-17949-1-CU
		US-PATENT-CLASS-264-12			US-PATENT-CLASS-60-258			US-PATENT-APPL-SN-545016
		US-PATENT-CLASS-264-5			US-PATENT-CLASS-60-39.281			US-PATENT-CLASS-156-637
		US-PATENT-CLASS-65-21.4			US-PATENT-5,054,287			US-PATENT-CLASS-427-343
		US-PATENT-CLASS-75-331			NAS 1.71:LAR-14440-1			US-PATENT-CLASS-427-62
		US-PATENT-CLASS-75-338			NASA-CASE-LAR-14440-1			US-PATENT-CLASS-505-1
		US-PATENT-CLASS-75-340			US-PATENT-APPL-SN-650336			US-PATENT-CLASS-505-728
		US-PATENT-CLASS-75-342			INT-PATENT-CLASS-B05D-1/24			US-PATENT-5,059,581
		US-PATENT-5,055,240			NASA-CASE-LAR-14231-1			NAS 1.71:LEW-14474-2
		NAS 1.71:NPO-18243-1-CU			US-PATENT-APPL-SN-524109			NASA-CASE-LEW-14474-2
		NASA-CASE-NPO-18243-1-CU			US-PATENT-CLASS-118-DIG.5			US-PATENT-APPL-SN-760670
		US-PATENT-APPL-SN-710424			US-PATENT-CLASS-156-186			NAS 1.71:LAR-14457-1-CU
		INT-PATENT-CLASS-B64D-1/12			US-PATENT-CLASS-156-283			NASA-CASE-LAR-14457-1-CU
		NASA-CASE-MSC-21671-1			US-PATENT-CLASS-427-185			US-PATENT-APPL-SN-520472
		US-PATENT-APPL-SN-603337			US-PATENT-CLASS-427-195			NAS 1.71:LAR-14639-1
		US-PATENT-CLASS-102-378			US-PATENT-CLASS-427-375			NASA-CASE-LAR-14639-1
		US-PATENT-CLASS-294-82.26			US-PATENT-5,057,338			US-PATENT-APPL-SN-651062
		US-PATENT-CLASS-89-1.14			INT-PATENT-CLASS-B01J-29/10			NAS 1.71:LAR-14487-1
		US-PATENT-CLASS-89-1.57			NASA-CASE-NPO-17480-1-CU			NASA-CASE-LAR-14487-1
		US-PATENT-5,046,395			US-PATENT-APPL-SN-508386			US-PATENT-APPL-SN-750158
		INT-PATENT-CLASS-B23K-26/00			US-PATENT-CLASS-502-73			NAS 1.71:LAR-14538-1
		NASA-CASE-MSC-21299-2			US-PATENT-5,057,473			NASA-CASE-LAR-14538-1
		US-PATENT-APPL-SN-176587			INT-PATENT-CLASS-C01B-31/04			US-PATENT-APPL-SN-736880
		US-PATENT-APPL-SN-358029			NASA-CASE-LEW-14698-2			NAS 1.71:LAR-14046-1
		US-PATENT-CLASS-219-121.72			US-PATENT-APPL-SN-219016			NASA-CASE-LAR-14046-1
		US-PATENT-CLASS-219-69.12			US-PATENT-APPL-SN-443289			US-PATENT-APPL-SN-766597
		US-PATENT-CLASS-29-558			US-PATENT-CLASS-252-502			NAS 1.71:LAR-14048-1
		US-PATENT-5,051,559			US-PATENT-CLASS-423-439			NASA-CASE-LAR-14048-1
		NAS 1.71:NPO-18116-1-CU			US-PATENT-CLASS-423-448			US-PATENT-APPL-SN-766609
		NASA-CASE-NPO-18116-1-CU			US-PATENT-CLASS-423-460			NAS 1.71:ARC-11921-1
		US-PATENT-APPL-SN-699299			US-PATENT-5,059,409			NASA-CASE-ARC-11921-1
		NAS 1.71:NPO-18134-1-CU			NASA-CASE-MSC-21503-1			US-PATENT-APPL-SN-703649
		NASA-CASE-NPO-18134-1-CU			US-PATENT-APPL-SN-443414			NAS 1.71:LAR-13944-1
		US-PATENT-APPL-SN-744118			US-PATENT-CLASS-2-2.1A			NASA-CASE-LAR-13944-1
		INT-PATENT-CLASS-B61D-15/08			US-PATENT-CLASS-2-411			US-PATENT-APPL-SN-747152
		NASA-CASE-MSC-21540-1			US-PATENT-CLASS-2-424			NAS 1.71:LAR-14542-1
		US-PATENT-APPL-SN-527508			US-PATENT-CLASS-428-215			NASA-CASE-LAR-14542-1
		US-PATENT-CLASS-105-124			US-PATENT-CLASS-428-412			US-PATENT-APPL-SN-743489
		US-PATENT-CLASS-105-141			US-PATENT-CLASS-428-419			NAS 1.71:LAR-14480-1-CU
		US-PATENT-CLASS-105-142			US-PATENT-CLASS-428-458			NASA-CASE-LAR-14480-1-CU
		US-PATENT-CLASS-105-87			US-PATENT-5,056,156			US-PATENT-APPL-SN-705474
		US-PATENT-CLASS-188-24.11			NAS 1.71:LAR-14773-1			NAS 1.71:LAR-14741-1

			NASA-CASE-LAR-14741-1 US-PATENT-APPL-SN-720153 INT-PATENT-CLASS-A61B-8/00 NASA-CASE-LAR-13901-2 US-PATENT-APPL-SN-118993 US-PATENT-APPL-SN-358213 US-PATENT-APPL-SN-929869 US-PATENT-CLASS-128-661.03 US-PATENT-5,058,591				US-PATENT-CLASS-428-920 US-PATENT-CLASS-501-39 US-PATENT-CLASS-501-54 US-PATENT-5,079,082 NASA-CASE-LAR-14481-1 US-PATENT-APPL-SN-035430 US-PATENT-APPL-SN-516489 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-172 US-PATENT-CLASS-528-173 US-PATENT-CLASS-528-179 US-PATENT-5,061,783			US-PATENT-CLASS-239-127.1 US-PATENT-CLASS-239-127.3 US-PATENT-CLASS-277-27 US-PATENT-CLASS-277-53 US-PATENT-5,076,590	
N92-11621*	c 52	.....	NAS 1.71:MSC-21775-1 NASA-CASE-MSC-21775-1 US-PATENT-APPL-SN-760633 NAS 1.71:MSC-21858-1 NASA-CASE-MSC-21858-1 US-PATENT-APPL-SN-765615	N92-16043*	c 25	.....	INT-PATENT-CLASS-H01B-1/00 NASA-CASE-NPO-17826-1-CU US-PATENT-APPL-SN-479485 US-PATENT-CLASS-252-500 US-PATENT-CLASS-252-518 US-PATENT-CLASS-526-258 US-PATENT-CLASS-528-222 US-PATENT-5,066,748	N92-16457*	c 44	..	INT-PATENT-CLASS-H01L-37/00 NASA-CASE-NPO-18034-1-CU US-PATENT-APPL-SN-568130 US-PATENT-CLASS-136-202 US-PATENT-CLASS-136-205 US-PATENT-CLASS-429-11 US-PATENT-CLASS-429-120 US-PATENT-5,066,337
N92-11627* #	c 52	.....	NAS 1.71:MSC-21775-1 NASA-CASE-MSC-21775-1 US-PATENT-APPL-SN-760633 NAS 1.71:MSC-21858-1 NASA-CASE-MSC-21858-1 US-PATENT-APPL-SN-765615	N92-16121*	c 27	.....	INT-PATENT-CLASS-H01B-1/00 NASA-CASE-NPO-17826-1-CU US-PATENT-APPL-SN-479485 US-PATENT-CLASS-252-500 US-PATENT-CLASS-252-518 US-PATENT-CLASS-526-258 US-PATENT-CLASS-528-222 US-PATENT-5,066,748	N92-16559*	c 54	..	INT-PATENT-CLASS-B66F-11/04 NASA-CASE-MSC-21721-1 US-PATENT-APPL-SN-664008 US-PATENT-CLASS-182-129 US-PATENT-CLASS-182-134 US-PATENT-CLASS-182-141 US-PATENT-CLASS-182-2 US-PATENT-CLASS-182-63 US-PATENT-5,070,964
N92-11628* #	c 52	.....	NAS 1.71:MSC-21775-1 NASA-CASE-MSC-21775-1 US-PATENT-APPL-SN-760633 NAS 1.71:MSC-21858-1 NASA-CASE-MSC-21858-1 US-PATENT-APPL-SN-765615	N92-16122*	c 27	..	INT-PATENT-CLASS-C04B-35/10 NASA-CASE-LEW-14984-1 US-PATENT-APPL-SN-610883 US-PATENT-CLASS-264-63 US-PATENT-CLASS-423-630 US-PATENT-CLASS-501-123 US-PATENT-CLASS-501-127 US-PATENT-5,066,625	N92-16563*	c 60	..	INT-PATENT-CLASS-H04N-5/262 NASA-CASE-MSC-21350-1 US-PATENT-APPL-SN-331551 US-PATENT-CLASS-358-160 US-PATENT-CLASS-358-183 US-PATENT-CLASS-358-22 US-PATENT-5,067,019
N92-11791* #	c 74	.....	NAS 1.71:NPO-18007-1-CU NASA-CASE-NPO-18007-1-CU US-PATENT-APPL-SN-703238	N92-16123*	c 27	.....	NASA-CASE-MFS-28372-1 US-PATENT-APPL-SN-618854 US-PATENT-CLASS-521-109.1 US-PATENT-CLASS-521-135 US-PATENT-CLASS-521-136 US-PATENT-CLASS-521-178 US-PATENT-CLASS-521-54 US-PATENT-CLASS-521-84.1 US-PATENT-CLASS-521-907 US-PATENT-5,064,868	N92-16808*	c 74	...	INT-PATENT-CLASS-G02B-1/01 INT-PATENT-CLASS-G02B-1/12 INT-PATENT-CLASS-G02B-5/23 NASA-CASE-NPO-17612-1-CU US-PATENT-APPL-SN-480385 US-PATENT-CLASS-359-11 US-PATENT-CLASS-359-240 US-PATENT-CLASS-359-241 US-PATENT-5,062,693
N92-12079* #	c 25	.....	NAS 1.71:MSC-21759-1 NASA-CASE-MSC-21759-1 US-PATENT-APPL-SN-746581	N92-16161*	c 31	...	INT-PATENT-CLASS-B25G-3/18 NASA-CASE-MSC-21517-1 US-PATENT-APPL-SN-654704 US-PATENT-CLASS-292-25.5 US-PATENT-CLASS-403-DIG.1 US-PATENT-CLASS-403-328 US-PATENT-CLASS-411-348 US-PATENT-5,061,112	N92-16809*	c 74	..	INT-PATENT-CLASS-H04N-13/00 NASA-CASE-NPO-18028-1-CU US-PATENT-APPL-SN-608452 US-PATENT-CLASS-358-88 US-PATENT-CLASS-358-91 US-PATENT-CLASS-358-92 US-PATENT-5,065,236
N92-12121* #	c 27	.....	NAS 1.71:LAR-14763-1 NASA-CASE-LAR-14763-1 US-PATENT-APPL-SN-736667	N92-16162*	c 31	INNT-PATENT-CLASS-B23K-20/08 NASA-CASE-LAR-13825-1 US-PATENT-APPL-SN-591645 US-PATENT-CLASS-228-107 US-PATENT-CLASS-228-2.5 US-PATENT-5,064,111	N92-16810*	c 74	..	INT-PATENT-CLASS-G02B-23/00 INT-PATENT-CLASS-G02B-3/00 NASA-CASE-ARC-11892-1-SB US-PATENT-APPL-SN-472939 US-PATENT-CLASS-359-362 US-PATENT-CLASS-359-572 US-PATENT-CLASS-359-744 US-PATENT-5,040,886	
N92-12438* #	c 60	.....	NAS 1.71:NPO-17998-1-CU NASA-CASE-NPO-17998-1-CU US-PATENT-APPL-SN-653578	N92-16196*	c 33	.....	NASA-CASE-NPO-17573-2-CU US-PATENT-APPL-SN-311552 US-PATENT-APPL-SN-692801 US-PATENT-CLASS-307-272.1 US-PATENT-CLASS-307-296.2 US-PATENT-CLASS-307-296.7 US-PATENT-CLASS-307-303 US-PATENT-CLASS-307-311 US-PATENT-CLASS-357-29 US-PATENT-5,072,133	N92-16811*	c 74	..	INT-PATENT-CLASS-G02B-27/64 INT-PATENT-CLASS-G02B-7/02 NASA-CASE-ARC-11916-1-SB US-PATENT-APPL-SN-531373 US-PATENT-CLASS-359-557 US-PATENT-CLASS-359-813 US-PATENT-CLASS-359-819 US-PATENT-5,077,622
N92-15081*	c 14	.....	INT-PATENT-CLASS-F41B-6/00 NASA-CASE-MFS-28323-1 US-PATENT-APPL-SN-429515 US-PATENT-CLASS-124-3 US-PATENT-CLASS-244-63 US-PATENT-CLASS-505-1 US-PATENT-CLASS-89-8 US-PATENT-5,017,549	N92-16241*	c 34	...	INT-PATENT-CLASS-G01N-1/00 NASA-CASE-MSC-21729-1 US-PATENT-APPL-SN-625344 US-PATENT-CLASS-73-863.23 US-PATENT-5,063,789	N92-17584* #	c 37	.....	NAS 1.71:MFS-28589-1 NASA-CASE-MFS-28589-1 US-PATENT-APPL-SN-813628
N92-15114*	c 18	.....	INT-PATENT-CLASS-F41H-5/04 NASA-CASE-MSC-21420-1 US-PATENT-APPL-SN-516573 US-PATENT-CLASS-244-158R US-PATENT-CLASS-89-36.02 US-PATENT-CLASS-89-36.11 US-PATENT-5,067,388	N92-16243*	c 34	...	INT-PATENT-CLASS-H01N-1/26 INT-PATENT-CLASS-H01N-17/00 NASA-CASE-MSC-21384-1 US-PATENT-APPL-SN-279170 US-PATENT-CLASS-422-176 US-PATENT-CLASS-422-83 US-PATENT-CLASS-422-93 US-PATENT-5,077,015	N92-17674* #	c 31	.....	NAS 1.71:NPO-18366-1-CU NASA-CASE-NPO-18366-1-CU US-PATENT-APPL-SN-781520
N92-15122*	c 20	.....	INT-PATENT-CLASS-F02K-9/58 NASA-CASE-MSC-21542-1 US-PATENT-APPL-SN-470480 US-PATENT-CLASS-60-204 US-PATENT-CLASS-60-240 US-PATENT-CLASS-60-243 US-PATENT-CLASS-60-259 US-PATENT-5,063,734	N92-16290*	c 36	..	INT-PATENT-CLASS-G02B-27/28 NASA-CASE-LAR-13887-1 US-PATENT-APPL-SN-681288 US-PATENT-CLASS-359-498 US-PATENT-CLASS-372-105 US-PATENT-5,062,694	N92-17676* #	c 27	.....	NAS 1.71:LAR-14608-1 NASA-CASE-LAR-14608-1 US-PATENT-APPL-SN-752246
N92-15203*	c 31	..	INT-PATENT-CLASS-F17C-11/00 NASA-CASE-NPO-17569-1-CU US-PATENT-APPL-SN-545236 US-PATENT-CLASS-62-461 US-PATENT-CLASS-624-3.2 US-PATENT-CLASS-624-467 US-PATENT-CLASS-624-500 US-PATENT-CLASS-624-51.2 US-PATENT-5,063,747	N92-16318*	c 37	..	INT-PATENT-CLASS-F16J-15/32 NASA-CASE-LEW-15086-1 US-PATENT-APPL-SN-617752	N92-17677* #	c 37	.....	NAS 1.71:LAR-14169-1 NASA-CASE-LAR-14169-1 US-PATENT-APPL-SN-791728
N92-15331*	c 33	..	INT-PATENT-CLASS-H04R-15/00 NASA-CASE-GSC-13369-1 US-PATENT-APPL-SN-645972 US-PATENT-CLASS-310-26 US-PATENT-CLASS-310-265 US-PATENT-CLASS-310-83 US-PATENT-CLASS-367-156 US-PATENT-5,079,460					N92-17678* #	c 37	.....	NAS 1.71:LEW-15216-1 NASA-CASE-LEW-15216-1 US-PATENT-APPL-SN-826547
N92-15620* #	c 62	..	INT-PATENT-CLASS-G06F-15/20 INT-PATENT-CLASS-G06G-7/48 NASA-CASE-NPO-17716-1-CU US-PATENT-APPL-SN-357759 US-PATENT-CLASS-364-402 US-PATENT-5,072,379					N92-17859* #	c 38	.....	NAS 1.71:LAR-14626-1 NASA-CASE-LAR-14626-1 US-PATENT-APPL-SN-751489
N92-16007*	c 16	...	INT-PATENT-CLASS-B64G-1/14 NASA-CASE-MSC-21562-1 US-PATENT-APPL-SN-658911 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-129.4 US-PATENT-CLASS-244-158R US-PATENT-5,071,091					N92-17860* #	c 61	.....	NAS 1.71:MSC-21415-1-SB NASA-CASE-MSC-21415-1-SB US-PATENT-APPL-SN-749819
N92-16025*	c 24	.....	NASA-CASE-LEW-15077-1 US-PATENT-APPL-SN-608493 US-PATENT-CLASS-118-416 US-PATENT-CLASS-252-502 US-PATENT-CLASS-423-447.2 US-PATENT-CLASS-423-448 US-PATENT-CLASS-423-460 US-PATENT-CLASS-427-294 US-PATENT-CLASS-427-443.2 US-PATENT-5,073,412					N92-17861* #	c 24	.....	NAS 1.71:LEW-15241-1 NASA-CASE-LEW-15241-1 US-PATENT-APPL-SN-798464
N92-16026*	c 24	.....	INT-PATENT-CLASS-B32B-5/14 NASA-CASE-ARC-11888-1 US-PATENT-APPL-SN-298149 US-PATENT-CLASS-428-307.7 US-PATENT-CLASS-428-325 US-PATENT-CLASS-428-446					N92-17862* #	c 36	.....	NAS 1.71:NPO-17763-1-CU NASA-CASE-NPO-17763-1-CU US-PATENT-APPL-SN-782009
								N92-17863* #	c 74	.....	NAS 1.71:MSC-21806-1 NASA-CASE-MSC-21806-1 US-PATENT-APPL-SN-780513
								N92-17864* #	c 74	.....	NAS 1.71:NPO-18593-1-CU NASA-CASE-NPO-18593-1-CU US-PATENT-APPL-SN-812901
								N92-17865* #	c 33	.....	NAS 1.71:NPO-18454-1-CU NASA-CASE-NPO-18454-1-CU

N92-17866* #	c 54	US-PATENT-APPL-SN-781521 NAS 1.71:MFS-28633-1 NASA-CASE-MFS-28633-1 US-PATENT-APPL-SN-813629	NASA-CASE-LAR-13508-1 US-PATENT-APPL-SN-146939 US-PATENT-CLASS-374-124 US-PATENT-CLASS-374-135 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-204-11 US-PATENT-5,085,073	US-PATENT-CLASS-356-360 US-PATENT-CLASS-356-363 US-PATENT-5,080,490
N92-17870* #	c 24	NAS 1.71:MFS-28431-1 NASA-CASE-MFS-28431-1 US-PATENT-APPL-SN-812084	US-PATENT-CLASS-73-204-11 US-PATENT-5,085,073	N92-22035* c 76 NASA-CASE-NPO-17724-1-CU US-PATENT-APPL-SN-488578 US-PATENT-CLASS-148-DIG.22 US-PATENT-CLASS-437-105 US-PATENT-CLASS-437-107 US-PATENT-CLASS-437-133 US-PATENT-CLASS-437-85 US-PATENT-CLASS-437-936 US-PATENT-CLASS-437-945 US-PATENT-5,094,974
N92-17872* #	c 37	NAS 1.71:MSC-21898-1 NASA-CASE-MSC-21898-1 US-PATENT-APPL-SN-780512	N92-21711* c 27 INT-PATENT-CLASS-C08J-5/08 INT-PATENT-CLASS-C08K-3/04 INT-PATENT-CLASS-C08L-79/08 NASA-CASE-LAR-13925-1 US-PATENT-APPL-SN-301925 US-PATENT-CLASS-524-495 US-PATENT-CLASS-525-422 US-PATENT-CLASS-525-432 US-PATENT-CLASS-525-903 US-PATENT-5,098,961	N92-22036* c 37 INT-PATENT-CLASS-G06F-15/00 NASA-CASE-NPO-17800-1-CU US-PATENT-APPL-SN-522949 US-PATENT-CLASS-395-86 US-PATENT-CLASS-395-95 US-PATENT-CLASS-901-6 US-PATENT-5,086,400
N92-17882* #	c 23	NAS 1.71:LEW-14345-6 NASA-CASE-LEW-14345-6 US-PATENT-APPL-SN-822240	N92-21712* c 32 INT-PATENT-CLASS-H03D-1/06 NASA-CASE-NPO-17628-1-CU US-PATENT-APPL-SN-350813 US-PATENT-CLASS-329-310 US-PATENT-CLASS-375-80 US-PATENT-CLASS-375-94 US-PATENT-4,947,408	N92-22037* c 44 INT-PATENT-CLASS-H01C-31/58 NASA-CASE-LEW-14731-1 US-PATENT-APPL-SN-503486 US-PATENT-CLASS-136-253 US-PATENT-5,080,724
N92-17884* #	c 60	NAS 1.71:NPO-17781-1-CU NASA-CASE-NPO-17781-1-CU US-PATENT-APPL-SN-744042	N92-21723* c 35 INT-PATENT-CLASS-B23B-39/00 NASA-CASE-LEW-14880-0 US-PATENT-APPL-SN-376738 US-PATENT-CLASS-408-14 US-PATENT-CLASS-408-16 US-PATENT-CLASS-408-241S US-PATENT-5,096,340	N92-22038* c 35 INT-PATENT-CLASS-B23H-9/00 NASA-CASE-LEW-14967-2 US-PATENT-APPL-SN-531433 US-PATENT-APPL-SN-685062 US-PATENT-CLASS-219-69.17 US-PATENT-CLASS-374-29 US-PATENT-CLASS-40-703 US-PATENT-5,086,204
N92-17892* #	c 74	NAS 1.71:NPO-18146-1-CU NASA-CASE-NPO-18146-1-CU US-PATENT-APPL-SN-786618	N92-21724* c 34 INT-PATENT-CLASS-B05B-1/02 INT-PATENT-CLASS-B05B-1/14 NASA-CASE-NPO-17625-1-CU US-PATENT-APPL-SN-531434 US-PATENT-CLASS-239-533.13 US-PATENT-CLASS-239-543 US-PATENT-CLASS-239-546 US-PATENT-CLASS-239-552 US-PATENT-CLASS-239-602 US-PATENT-5,080,286	N92-22039* c 35 INT-PATENT-CLASS-G01B-5/02 NASA-CASE-MSC-21700-1 US-PATENT-APPL-SN-640775 US-PATENT-CLASS-33-10 US-PATENT-CLASS-33-15D US-PATENT-CLASS-33-520 US-PATENT-CLASS-33-644 US-PATENT-5,083,378
N92-17895* #	c 63	NAS 1.71:NPO-17918-2-CU NASA-CASE-NPO-17918-2-CU US-PATENT-APPL-SN-786499	N92-21725* c 24 NASA-CASE-LEW-14999-1 US-PATENT-APPL-SN-560926 US-PATENT-CLASS-428-212 US-PATENT-CLASS-428-213 US-PATENT-CLASS-428-426 US-PATENT-CLASS-428-432 US-PATENT-CLASS-428-433 US-PATENT-CLASS-428-469 US-PATENT-CLASS-428-472.2 US-PATENT-5,080,977	N92-22040* c 76 NASA-CASE-NPO-17812-2-CU US-PATENT-APPL-SN-387928 US-PATENT-APPL-SN-642765 US-PATENT-CLASS-156-643 US-PATENT-CLASS-357-5 US-PATENT-CLASS-427-419.1 US-PATENT-CLASS-427-419.2 US-PATENT-CLASS-427-62 US-PATENT-CLASS-427-63 US-PATENT-5,100,694
N92-17899* #	c 36	NAS 1.71:NPO-18386-1-CU NASA-CASE-NPO-18386-1-CU US-PATENT-APPL-SN-751440	N92-21726* c 37 INT-PATENT-CLASS-F16B-19/00 INT-PATENT-CLASS-F16B-35/02 NASA-CASE-MSC-21580-1 US-PATENT-APPL-SN-648772 US-PATENT-CLASS-411-354 US-PATENT-CLASS-411-385 US-PATENT-CLASS-411-65 US-PATENT-CLASS-411-901 US-PATENT-CLASS-411-908 US-PATENT-5,090,857	N92-22041* c 76 INT-PATENT-CLASS-H01L-27/12 INT-PATENT-CLASS-H01L-39/22 NASA-CASE-NPO-17812-3-CU US-PATENT-APPL-SN-387928 US-PATENT-APPL-SN-641798 US-PATENT-CLASS-357-4 US-PATENT-CLASS-357-5 US-PATENT-CLASS-505-862 US-PATENT-CLASS-505-871 US-PATENT-5,099,294
N92-17907* #	c 33	NAS 1.71:NPO-17994-1-CU NASA-CASE-NPO-17994-1-CU US-PATENT-APPL-SN-791759	N92-21727* c 37 NASA-CASE-MSC-21748-1 US-PATENT-APPL-SN-657598 US-PATENT-CLASS-277-3 US-PATENT-CLASS-277-34 US-PATENT-CLASS-277-34.3 US-PATENT-CLASS-285-223 US-PATENT-CLASS-285-346 US-PATENT-CLASS-285-910 US-PATENT-CLASS-285-97 US-PATENT-5,102,150	N92-22042* c 33 INT-PATENT-CLASS-H02N-1/08 NASA-CASE-NPO-17684-1-CU US-PATENT-APPL-SN-443522 US-PATENT-CLASS-310-308 US-PATENT-CLASS-310-309 US-PATENT-5,084,645
N92-17909* #	c 34	NAS 1.71:LAR-14547-1 NASA-CASE-LAR-14547-1 US-PATENT-APPL-SN-748224	N92-21728* c 37 INT-PATENT-CLASS-B60T-13/04 NASA-CASE-GSC-13376-1 US-PATENT-APPL-SN-677008 US-PATENT-CLASS-188-171 US-PATENT-CLASS-188-82.84 US-PATENT-CLASS-188-82.9 US-PATENT-5,103,941	N92-22043* c 37 INT-PATENT-CLASS-F16J-15/46 NASA-CASE-LEW-15085-1 US-PATENT-APPL-SN-610879 US-PATENT-CLASS-239-265.11 US-PATENT-CLASS-277-229 US-PATENT-CLASS-277-234 US-PATENT-CLASS-277-3 US-PATENT-CLASS-277-34 US-PATENT-CLASS-277-76 US-PATENT-5,082,293
N92-17910* #	c 54	NAS 1.71:MSC-21752-1 NASA-CASE-MSC-21752-1 US-PATENT-APPL-SN-775404	N92-21999* c 18 INT-PATENT-CLASS-B64G-1/62 NASA-CASE-MSC-21536-1 US-PATENT-APPL-SN-458476 US-PATENT-CLASS-244-160 US-PATENT-CLASS-244-162 US-PATENT-CLASS-244-163 US-PATENT-5,064,151	N92-22044* c 27 NASA-CASE-LAR-14346-1 US-PATENT-APPL-SN-250480 US-PATENT-APPL-SN-434195 US-PATENT-CLASS-525-275 US-PATENT-CLASS-525-421 US-PATENT-CLASS-525-422 US-PATENT-CLASS-526-248 US-PATENT-CLASS-526-249 US-PATENT-CLASS-526-262 US-PATENT-5,081,198
N92-18561* #	c 24	NASA-CASE-NPO-17736-2-CU US-PATENT-APPL-SN-392166 US-PATENT-APPL-SN-677373 US-PATENT-CLASS-437-200 US-PATENT-CLASS-437-40 US-PATENT-CLASS-437-907 US-PATENT-CLASS-437-935 US-PATENT-CLASS-437-942 US-PATENT-CLASS-437-973 US-PATENT-5,075,243	N92-22033* c 32 INT-PATENT-CLASS-G06G-7/12 NASA-CASE-NPO-17564-1-CU US-PATENT-APPL-SN-414811 US-PATENT-CLASS-307-201 US-PATENT-CLASS-364-807 US-PATENT-CLASS-395-24 US-PATENT-5,101,361	N92-23377* # c 37 NAS 1.71:GSC-13360-1 NASA-CASE-GSC-13360-1 US-PATENT-APPL-SN-772200
N92-19486* #	c 25	NAS 1.71:MSC-21936-1 NASA-CASE-MSC-21936-1 US-PATENT-APPL-SN-728901	N92-22034* c 74 INT-PATENT-CLASS-G01B-9/02 NASA-CASE-NPO-17913-1-CU US-PATENT-APPL-SN-527509 US-PATENT-CLASS-356-351	N92-23378* # c 37 NAS 1.71:GSC-13359-1 NASA-CASE-GSC-13359-1 US-PATENT-APPL-SN-796496
N92-21499* #	c 76	NASA-CASE-NPO-17074-2-CU US-PATENT-APPL-SN-102934 US-PATENT-APPL-SN-311376 US-PATENT-CLASS-156-DIG.64 US-PATENT-CLASS-156-608 US-PATENT-CLASS-156-617.1 US-PATENT-CLASS-156-620.1 US-PATENT-CLASS-156-620.3 US-PATENT-CLASS-156-620.4 US-PATENT-5,092,956		N92-23461* # c 27 NAS 1.71:LEW-15314-1 NASA-CASE-LEW-15314-1 US-PATENT-APPL-SN-842313
N92-21500* #	c 37	INT-PATENT-CLASS-E05C-5/02 NASA-CASE-GSC-13200-1 US-PATENT-APPL-SN-654454 US-PATENT-CLASS-292-DIG.39 US-PATENT-CLASS-292-110 US-PATENT-5,087,088		
N92-21586* #	c 35	INT-PATENT-CLASS-G01L-19/04 NASA-CASE-LAR-14340-1-CU US-PATENT-APPL-SN-575695 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-182 US-PATENT-CLASS-73-708 US-PATENT-5,076,103		
N92-21587* #	c 05	INT-PATENT-CLASS-B64C-21/10 NASA-CASE-LAR-13870-1-CU US-PATENT-APPL-SN-429516 US-PATENT-CLASS-244-198 US-PATENT-CLASS-244-200 US-PATENT-CLASS-244-212 US-PATENT-CLASS-244-215 US-PATENT-5,088,665		
N92-21588* #	c 02	INT-PATENT-CLASS-G01M-9/00 NASA-CASE-LAR-13742-1 US-PATENT-APPL-SN-621144 US-PATENT-CLASS-116-201 US-PATENT-CLASS-116-207 US-PATENT-CLASS-73-147 US-PATENT-5,070,729		
N92-21589* #	c 54	NASA-CASE-MSC-21868-1 US-PATENT-APPL-SN-765273 US-PATENT-CLASS-136-245 US-PATENT-CLASS-136-246 US-PATENT-CLASS-165-1 US-PATENT-CLASS-165-41 US-PATENT-CLASS-165-48.2 US-PATENT-CLASS-165-86 US-PATENT-CLASS-165-904 US-PATENT-5,086,828		
N92-21710* #	c 35	INT-PATENT-CLASS-G01F-9/00		

N92-23462* #	c 33	NAS 1.71:GSC-13422-1 NASA-CASE-GSC-13422-1 US-PATENT-APPL-SN-772741	US-PATENT-CLASS-422-245 US-PATENT-CLASS-422-247 US-PATENT-5,013,531	US-PATENT-APPL-SN-648933 US-PATENT-CLASS-204-129 US-PATENT-5,110,436
N92-23463* #	c 44	NAS 1.71:GSC-13450-1 NASA-CASE-GSC-13450-1 US-PATENT-APPL-SN-787993	N92-25399* # c 25 INT-PATENT-CLASS-B44C-1/22 INT-PATENT-CLASS-C09K-13/00 INT-PATENT-CLASS-C23F-1/00 NASA-CASE-MFS-29576-1 US-PATENT-APPL-SN-587890 US-PATENT-CLASS-156-656 US-PATENT-CLASS-156-664 US-PATENT-CLASS-252-79.2 US-PATENT-CLASS-252-79.4 US-PATENT-5,034,093	N92-28757* c 39 INT-PATENT-CLASS-G01N-27/80 INT-PATENT-CLASS-G01R-33/12 NASA-CASE-LAR-13817-5 US-PATENT-APPL-SN-210486 US-PATENT-APPL-SN-449211 US-PATENT-APPL-SN-686263 US-PATENT-CLASS-324-226 US-PATENT-CLASS-324-235 US-PATENT-CLASS-73-601 US-PATENT-5,121,058
N92-23464* #	c 33	NAS 1.71:NPO-18428-1-CU NASA-CASE-NPO-18428-1-CU US-PATENT-APPL-SN-842297	N92-28571* c 74 INT-PATENT-CLASS-H01P-1/18 NASA-CASE-LEW-14878-1 US-PATENT-APPL-SN-587921 US-PATENT-CLASS-333-161 US-PATENT-CLASS-333-995 US-PATENT-CLASS-505-1 US-PATENT-CLASS-505-703 US-PATENT-CLASS-505-848 US-PATENT-CLASS-505-866 US-PATENT-5,116,807	N92-29090* c 27 INT-PATENT-CLASS-B32B-15/01 INT-PATENT-CLASS-B32B-15/20 INT-PATENT-CLASS-B32B-5/02 NASA-CASE-LEW-15155-1 US-PATENT-APPL-SN-682160 US-PATENT-CLASS-428-614 US-PATENT-CLASS-428-660 US-PATENT-CLASS-428-661 US-PATENT-5,116,690
N92-23544* #	c 37	NAS 1.71:MSC-21864-1 NASA-CASE-MSC-21864-1 US-PATENT-APPL-SN-799460	N92-28727* c 37 INT-PATENT-CLASS-B64G-1/62 NASA-CASE-MSC-21906-1 US-PATENT-APPL-SN-813558 US-PATENT-CLASS-244-161 US-PATENT-CLASS-294-65.5 US-PATENT-CLASS-294-86.4 US-PATENT-CLASS-901-30 US-PATENT-CLASS-901-46 US-PATENT-5,125,601	N92-29092* c 37 INT-PATENT-CLASS-A47H-1/144 NASA-CASE-LEW-15196-1 US-PATENT-APPL-SN-687606 US-PATENT-CLASS-16-111R US-PATENT-CLASS-16-114R US-PATENT-CLASS-248-222.1 US-PATENT-CLASS-248-251 US-PATENT-CLASS-256-59 US-PATENT-5,126,131
N92-23545* #	c 35	NAS 1.71:MSC-21951-1 NASA-CASE-MSC-21951-1 US-PATENT-APPL-SN-834451	N92-28728* c 25 INT-PATENT-CLASS-G01N-27/26 NASA-CASE-MFS-26049-2-NP US-PATENT-APPL-SN-376487 US-PATENT-APPL-SN-599601 US-PATENT-CLASS-204-180.1 US-PATENT-CLASS-204-183.3 US-PATENT-CLASS-204-299R US-PATENT-5,108,568	N92-29094* c 26 INT-PATENT-CLASS-B23K-1/00 NASA-CASE-GSC-13344-1 US-PATENT-APPL-SN-718046 US-PATENT-CLASS-219-85.15 US-PATENT-CLASS-219-85.19 US-PATENT-5,126,527
N92-23546* #	c 60	NAS 1.71:NPO-18491-1-CU NASA-CASE-NPO-18491-1-CU US-PATENT-APPL-SN-880210	N92-28729* c 02 INT-PATENT-CLASS-B64C-3/14 NASA-CASE-LAR-14281-1 US-PATENT-APPL-SN-560923 US-PATENT-CLASS-244-35R US-PATENT-CLASS-244-36 US-PATENT-5,112,120	N92-29097* c 35 INT-PATENT-CLASS-G01L-7/08 INT-PATENT-CLASS-G01L-9/06 NASA-CASE-LAR-14579-1 US-PATENT-APPL-SN-690198 US-PATENT-CLASS-338-4 US-PATENT-CLASS-73-708 US-PATENT-CLASS-73-721 US-PATENT-CLASS-73-727 US-PATENT-CLASS-73-756 US-PATENT-5,116,331
N92-23547* #	c 37	NAS 1.71:GSC-13442-1 NASA-CASE-GSC-13442-1 US-PATENT-APPL-SN-843861	N92-28750* c 18 INT-PATENT-CLASS-B64G-1/64 NASA-CASE-MFS-28421-1 US-PATENT-APPL-SN-481537 US-PATENT-CLASS-244-161 US-PATENT-CLASS-358-103 US-PATENT-CLASS-364-459 US-PATENT-5,109,345	N92-29099* c 37 INT-PATENT-CLASS-F16C-32/04 INT-PATENT-CLASS-H02K-1/14 NASA-CASE-GSC-13346-1 US-PATENT-APPL-SN-691609 US-PATENT-CLASS-310-90.5 US-PATENT-CLASS-505-876 US-PATENT-5,117,139
N92-23548* #	c 37	NAS 1.71:GSC-13141-1 NASA-CASE-GSC-13141-1 US-PATENT-APPL-SN-754875	N92-28751* c 27 NASA-CASE-LAR-14145-1 US-PATENT-APPL-SN-508316 US-PATENT-APPL-SN-732884 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-127 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-220 US-PATENT-CLASS-528-224 US-PATENT-5,116,934	N92-29101* c 39 INT-PATENT-CLASS-G01R-27/72 INT-PATENT-CLASS-G01R-33/12 NASA-CASE-LAR-13817-4 US-PATENT-APPL-SN-210486 US-PATENT-APPL-SN-449211 US-PATENT-APPL-SN-608504 US-PATENT-CLASS-324-239 US-PATENT-5,117,184
N92-23549* #	c 39	NAS 1.71:GSC-13451-1 NASA-CASE-GSC-13451-1 US-PATENT-APPL-SN-801141	N92-28752* c 34 INT-PATENT-CLASS-F28D-17/00 NASA-CASE-LAR-14033-1 US-PATENT-APPL-SN-501909 US-PATENT-CLASS-165-104.31 US-PATENT-CLASS-165-104.34 US-PATENT-CLASS-165-109.1 US-PATENT-CLASS-165-110 US-PATENT-CLASS-165-4 US-PATENT-CLASS-165-41 US-PATENT-5,107,920	N92-29117* c 74 INT-PATENT-CLASS-G02F-1/01 NASA-CASE-LAR-14588-1-CU US-PATENT-APPL-SN-653605 US-PATENT-CLASS-356-370 US-PATENT-CLASS-356-414 US-PATENT-CLASS-359-246 US-PATENT-CLASS-359-247 US-PATENT-CLASS-359-281 US-PATENT-5,128,797
N92-23550* #	c 82	NAS 1.71:SSC-00010-2 NASA-CASE-SSC-00010-2 US-PATENT-APPL-SN-842956	N92-28753* c 33 INT-PATENT-CLASS-H01M-10/40 NASA-CASE-NPO-17922-1-CU US-PATENT-APPL-SN-596139 US-PATENT-CLASS-252-62.2 US-PATENT-CLASS-429-192 US-PATENT-5,110,694	N92-29120* c 37 INT-PATENT-CLASS-F16C-9/00 NASA-CASE-GSC-13251-1 US-PATENT-APPL-SN-714814 US-PATENT-CLASS-285-381 US-PATENT-CLASS-292-DIG.66 US-PATENT-CLASS-403-28 US-PATENT-CLASS-403-404 US-PATENT-CLASS-411-909 US-PATENT-5,108,214
N92-23551* #	c 74	NAS 1.71:NPO-18702-1-CU NASA-CASE-NPO-18702-1-CU US-PATENT-APPL-SN-842300	N92-28754* c 37 INT-PATENT-CLASS-B05C-17/02 NASA-CASE-GSC-13230-1 US-PATENT-APPL-SN-531374 US-PATENT-CLASS-15-230.11 US-PATENT-CLASS-29-110.5 US-PATENT-CLASS-29-123 US-PATENT-CLASS-29-132 US-PATENT-5,068,951	N92-29122* c 74 INT-PATENT-CLASS-G01J-1/20 NASA-CASE-NPO-18095-1-CU US-PATENT-APPL-SN-665509 US-PATENT-CLASS-250-201.9 US-PATENT-CLASS-359-849 US-PATENT-5,113,064
N92-23553* #	c 37	NAS 1.71:NPO-18607-1-CU NASA-CASE-NPO-18607-1-CU US-PATENT-APPL-SN-849629	N92-28755* c 52 INT-PATENT-CLASS-A61B-3/14 NASA-CASE-MSC-21675-1 US-PATENT-APPL-SN-562095 US-PATENT-CLASS-351-206 US-PATENT-CLASS-351-221 US-PATENT-5,125,730	N92-29124* c 32 INT-PATENT-CLASS-G01R-23/16 NASA-CASE-NPO-17759-1-CU US-PATENT-APPL-SN-660371 US-PATENT-CLASS-324-77C US-PATENT-CLASS-324-77CS US-PATENT-CLASS-324-78D US-PATENT-CLASS-324-78F US-PATENT-5,122,731
N92-24042* #	c 37	NAS 1.71:NPO-18499-1-CU NASA-CASE-NPO-18499-1-CU US-PATENT-APPL-SN-862861	N92-28756* c 25 INT-PATENT-CLASS-C25B-1/04 INT-PATENT-CLASS-C25B-1/12 NASA-CASE-MSC-21572-1-SB	N92-29125* c 34 INT-PATENT-CLASS-F28D-15/02 NASA-CASE-LEW-15235-1
N92-24043* #	c 37	NAS 1.71:NPO-18498-1-CU NASA-CASE-NPO-18498-1-CU US-PATENT-APPL-SN-866779		
N92-24044* #	c 54	NAS 1.71:MFS-28430-1 NASA-CASE-MFS-28430-1 US-PATENT-APPL-SN-832569		
N92-24045* #	c 62	NAS 1.71:NPO-18414-1-CU NASA-CASE-NPO-18414-1-CU US-PATENT-APPL-SN-880211		
N92-24051* #	c 37	NAS 1.71:MSC-21648-1 NASA-CASE-MSC-21648-1 US-PATENT-APPL-SN-824806		
N92-24052* #	c 51	NAS 1.71:MSC-21843-1-NP NASA-CASE-MSC-21843-1-NP US-PATENT-APPL-SN-803828		
N92-24053* #	c 27	NAS 1.71:LEW-15027-2 NASA-CASE-LEW-15027-2 US-PATENT-APPL-SN-824858		
N92-24055* #	c 37	NAS 1.71:MFS-28634-1 NASA-CASE-MFS-28634-1 US-PATENT-APPL-SN-825895		
N92-24056* #	c 54	NAS 1.71:MFS-28481-1 NASA-CASE-MFS-28481-1 US-PATENT-APPL-SN-873931		
N92-24057* #	c 44	NAS 1.71:LEW-15308-1 NASA-CASE-LEW-15308-1 US-PATENT-APPL-SN-862113		
N92-24058* #	c 37	NAS 1.71:GSC-13358-1 NASA-CASE-GSC-13358-1 US-PATENT-APPL-SN-765069		
N92-24243* #	c 37	NAS 1.71:GSC-13356-1 NASA-CASE-GSC-13356-1 US-PATENT-APPL-SN-760634		
N92-24244* #	c 18	NAS 1.71:GSC-13408-1 NASA-CASE-GSC-13408-1 US-PATENT-APPL-SN-781625		
N92-24245* #	c 63	NAS 1.71:NPO-18497-1-CU NASA-CASE-NPO-18497-1-CU US-PATENT-APPL-SN-845283		
N92-24246* #	c 33	NAS 1.71:NPO-18552-1-CU NASA-CASE-NPO-18552-1-CU US-PATENT-APPL-SN-854124		
N92-25397* #	c 27	INT-PATENT-CLASS-B01D-13/02 INT-PATENT-CLASS-C25D-13/00 NASA-CASE-MFS-26050-1 US-PATENT-APPL-SN-808981 US-PATENT-CLASS-204-299R US-PATENT-CLASS-204-300EC US-PATENT-CLASS-428-403 US-PATENT-CLASS-428-405 US-PATENT-CLASS-428-407 US-PATENT-4,690,749		
N92-25398* #	c 76	INT-PATENT-CLASS-B01D-9/00 NASA-CASE-MFS-26088-1-CU US-PATENT-APPL-SN-575736 US-PATENT-CLASS-156-DIG.113 US-PATENT-CLASS-156-DIG.62		

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N92-30539* #	c 27	NASA-CASE-NPO-18701-1-CU US-PATENT-APPL-SN-909501 NAS 1.71:MSC-21884-1 NASA-CASE-MSC-21884-1 US-PATENT-APPL-SN-887674	US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-173 US-PATENT-CLASS-528-179 US-PATENT-CLASS-528-182 US-PATENT-CLASS-528-188 US-PATENT-5,147,966	N92-33031*	c 37	INT-PATENT-CLASS-F16H-21/16 INT-PATENT-CLASS-F16H-49/00 NASA-CASE-LAR-14515-1-CU US-PATENT-APPL-SN-678551 US-PATENT-CLASS-74-25 US-PATENT-CLASS-74-437 US-PATENT-5,146,803	
N92-30540* #	c 37	NAS 1.71:MSC-21940-1 NASA-CASE-MSC-21940-1 US-PATENT-APPL-SN-892072	N92-33015* c 27	NASA-CASE-LAR-14351-1 US-PATENT-APPL-SN-589571 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-172 US-PATENT-CLASS-528-185 US-PATENT-CLASS-528-352 US-PATENT-CLASS-528-353 US-PATENT-CLASS-564-315 US-PATENT-5,145,942	N92-33032*	c 52	INT-PATENT-CLASS-A61M-1/00 NASA-CASE-GSC-13306-1 US-PATENT-APPL-SN-674828 US-PATENT-CLASS-148-402 US-PATENT-CLASS-606-106 US-PATENT-CLASS-606-127 US-PATENT-CLASS-606-78 US-PATENT-5,133,721
N92-30541* #	c 60	NAS 1.71:LAR-13950-1 NASA-CASE-LAR-13950-1 US-PATENT-APPL-SN-891604	N92-33016* c 35	INT-PATENT-CLASS-A61B-5/02 NASA-CASE-LAR-14088-1-CU US-PATENT-APPL-SN-552670 US-PATENT-CLASS-128-715 US-PATENT-CLASS-128-775 US-PATENT-5,140,992	N92-33057*	c 60	NASA-CASE-NPO-17997-1-CU US-PATENT-APPL-SN-481013 US-PATENT-CLASS-359-107 US-PATENT-CLASS-359-108 US-PATENT-CLASS-359-559 US-PATENT-CLASS-359-561 US-PATENT-CLASS-365-49 US-PATENT-CLASS-382-31 US-PATENT-CLASS-382-32 US-PATENT-5,131,055
N92-30542* #	c 33	NAS 1.71:NPO-18062-1-CU NASA-CASE-NPO-18062-1-CU US-PATENT-APPL-SN-877966	N92-33017* c 74	INT-PATENT-CLASS-H01J-40/14 NASA-CASE-LAR-14402-1-CU US-PATENT-APPL-SN-586369 US-PATENT-CLASS-250-227.21 US-PATENT-CLASS-250-231.19 US-PATENT-CLASS-358-12 US-PATENT-CLASS-73-705 US-PATENT-5,146,083	N92-33611*	c 25	NASA-CASE-LAR-13388-1 US-PATENT-APPL-SN-628062 US-PATENT-CLASS-210-222 US-PATENT-CLASS-210-223 US-PATENT-CLASS-210-695 US-PATENT-CLASS-210-748 US-PATENT-CLASS-210-767 US-PATENT-CLASS-55-15 US-PATENT-CLASS-55-277 US-PATENT-5,147,562
N92-30543* #	c 61	NAS 1.71:NPO-18435-1-CU NASA-CASE-NPO-18435-1-CU US-PATENT-APPL-SN-792501	N92-33018* c 37	NASA-CASE-MSC-21463-1 US-PATENT-APPL-SN-636531 US-PATENT-CLASS-244-161 US-PATENT-CLASS-294-65.5 US-PATENT-CLASS-294-66.2 US-PATENT-CLASS-294-86.4 US-PATENT-CLASS-294-907 US-PATENT-CLASS-414-737 US-PATENT-CLASS-901-40 US-PATENT-5,145,227	N92-33612*	c 31	INT-PATENT-CLASS-B65D-83/10 NASA-CASE-MSC-21776-1 US-PATENT-APPL-SN-772763 US-PATENT-CLASS-206-364 US-PATENT-CLASS-206-366 US-PATENT-CLASS-206-370 US-PATENT-CLASS-206-818 US-PATENT-CLASS-220-908 US-PATENT-5,145,063
N92-31150* #	c 32	NASA-CASE-LAR-14679-2 US-PATENT-APPL-SN-790731	N92-33019* c 63	INT-PATENT-CLASS-G05B-19/42 NASA-CASE-NPO-17852-1-CU US-PATENT-APPL-SN-615668 US-PATENT-CLASS-318-567 US-PATENT-CLASS-318-568.11 US-PATENT-CLASS-318-568.19 US-PATENT-CLASS-364-191 US-PATENT-CLASS-395-90 US-PATENT-CLASS-901-47 US-PATENT-5,150,026	N92-33614*	c 35	INT-PATENT-CLASS-G01K-7/00 INT-PATENT-CLASS-G01K-7/16 NASA-CASE-GSC-13406-1 US-PATENT-APPL-SN-765070 US-PATENT-CLASS-338-22SD US-PATENT-CLASS-338-25 US-PATENT-CLASS-357-28 US-PATENT-CLASS-374-178 US-PATENT-CLASS-374-185 US-PATENT-5,141,334
N92-31257* #	c 32	NAS 1.71:LAR-14418-1 NASA-CASE-LAR-14418-1 US-PATENT-APPL-SN-790723	N92-33020* c 31	INT-PATENT-CLASS-B29C-65/48 NASA-CASE-LAR-14446-1 US-PATENT-APPL-SN-699288 US-PATENT-APPL-156-241 US-PATENT-APPL-156-285 US-PATENT-APPL-156-293 US-PATENT-APPL-264-272.15 US-PATENT-APPL-29-856 US-PATENT-5,149,387	N92-33616*	c 37	INT-PATENT-CLASS-A47B-97/04 NASA-CASE-GSC-13415-1 US-PATENT-APPL-SN-812932 US-PATENT-CLASS-248-453 US-PATENT-CLASS-248-455 US-PATENT-CLASS-248-463 US-PATENT-5,149,046
N92-31788*	c 36	INT-PATENT-CLASS-H01S-3/10 NASA-CASE-LAR-13772-1 US-PATENT-APPL-SN-359460 US-PATENT-CLASS-372-25 US-PATENT-CLASS-372-30 US-PATENT-5,128,949	N92-33021* c 33	INT-PATENT-CLASS-G01K-7/30 NASA-CASE-LAR-14567-1-CU US-PATENT-APPL-SN-773376 US-PATENT-CLASS-374-175 US-PATENT-CLASS-73-1H US-PATENT-CLASS-73-571 US-PATENT-5,146,780	N92-33634*	c 37	INT-PATENT-CLASS-B25J-17/00 NASA-CASE-GSC-13161-1 US-PATENT-APPL-SN-754828 US-PATENT-CLASS-310-112 US-PATENT-CLASS-310-82 US-PATENT-CLASS-74-479 US-PATENT-CLASS-901-23 US-PATENT-CLASS-901-28 US-PATENT-CLASS-901-9 US-PATENT-5,142,932
N92-31790*	c 35	INT-PATENT-CLASS-C12M-1/10 INT-PATENT-CLASS-C12M-1/12 INT-PATENT-CLASS-C12M-3/00 INT-PATENT-CLASS-C12M-3/02 NASA-CASE-MFS-28370-1 US-PATENT-APPL-SN-386175 US-PATENT-CLASS-435-286 US-PATENT-CLASS-435-311 US-PATENT-CLASS-435-312 US-PATENT-5,104,802	N92-33022* c 74	INT-PATENT-CLASS-G02B-27/42 INT-PATENT-CLASS-G03B-1/16 NASA-CASE-NPO-18379-1-CU US-PATENT-APPL-SN-797569 US-PATENT-CLASS-359-559 US-PATENT-CLASS-359-561 US-PATENT-CLASS-359-7 US-PATENT-5,150,228	N92-34160*	c 27	INT-PATENT-CLASS-C04B-35/56 NASA-CASE-ARC-11891-2-SB US-PATENT-APPL-SN-361471 US-PATENT-APPL-SN-643629 US-PATENT-CLASS-501-92 US-PATENT-CLASS-501-93 US-PATENT-CLASS-501-96 US-PATENT-CLASS-501-97 US-PATENT-5,130,278
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N92-33010*	c 35	INT-PATENT-CLASS-B64G-1/66 NASA-CASE-MFS-28425-1 US-PATENT-APPL-SN-527462 US-PATENT-CLASS-244-158R US-PATENT-CLASS-343-766 US-PATENT-CLASS-74-61 US-PATENT-CLASS-74-87 US-PATENT-5,129,600					
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The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table.

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**NASA Case
Number
Prefix Letters**

**Address of Cognizant
NASA Patent Counsel**

ARC-xxxxx
XAR-xxxxx

Ames Research Center
Mail Code: 200-11A
Moffett Field, California 94035
Telephone: (415) 694-5104

ERC-xxxxx
XER-xxxxx
HQN-xxxxx
XHQ-xxxxx

NASA Headquarters
Mail Code: GP
Washington, DC 20546
Telephone: (202) 358-2066

GSC-xxxxx
XGS-xxxxx

Goddard Space Flight Center
Mail Code: 204
Greenbelt, Maryland 20771
Telephone: (301) 286-7351

KSC-xxxxx
XKS-xxxxx

John F. Kennedy Space Center
Mail Code: PT-PAT
Kennedy Space Center, Florida 32899
Telephone: (305) 867-2544

LAR-xxxxx
XLA-xxxxx

Langley Research Center
Mail Code: 279
Hampton, Virginia 23365
Telephone: (804) 865-3725

LEW-xxxxx
XLE-xxxxx

Lewis Research Center
Mail Code: 500-318
21000 Brookpark Road
Cleveland, Ohio 44135
Telephone: (216) 433-5753

MSC-xxxxx
XMS-xxxxx

Lyndon B. Johnson Space Center
Mail Code: AL3
Houston, Texas 77058
Telephone: (713) 483-4871

MFS-xxxxx
XMF-xxxxx

George C. Marshall Space Flight Center
Mail Code: CC01
Huntsville, Alabama 35812
Telephone: (205) 544-0024

NPO-xxxxx
XNP-xxxxx
FRC-xxxxx
XFR-xxxxx
WOO-xxxxx

NASA Resident Legal Office
Mail Code: 180-801
4800 Oak Grove Drive
Pasadena, California 91103
Telephone: (818) 354-2700

PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Licensing of NASA Inventions

AGENCY: National Aeronautics and Space Administration

ACTION: Interim regulation with comments requested.

SUMMARY: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the **Federal Register** after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

ADDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546

FOR FURTHER INFORMATION CONTACT:

Mr. John G. Mannix, (202) 755-3954.

SUPPLEMENTARY INFORMATION:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

Subpart 2 of Part 1245 is revised to read as follows:

* * * * *

Subpart 2—Licensing of NASA Inventions

Sec.

1245.200 Scope of subpart.

1245.201 Policy and objective.

1245.202 Definitions.

1245.203 Authority to grant licenses.

Restrictions and Conditions

1245.204 All licenses granted under this subpart.

Types of Licenses

1245.205 Nonexclusive licenses.

1245.206 Exclusive and partially exclusive licenses.

Procedures

1245.207 Application for a license.

1245.208 Processing applications.

1245.209 Notice to Attorney General.

1245.210 Modification and termination of licenses.

1245.211 Appeals.

1245.212 Protection and administration of inventions.

1245.213 Transfer of custody.

1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208.94 Stat 3023 and 3024.

* * * * *

Subpart 2—Licensing of NASA Inventions

§ 1245.200 Scope of subpart.

This subpart prescribes the terms, conditions and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such condition, as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

PATENT LICENSING REGULATIONS

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to § 1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§ 1245.205 Nonexclusive licenses.

(a) *Availability of licenses.* Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of § 1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§ 1245.206 Exclusive and partially exclusive licenses.

(a) Domestic licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the **Federal Register**; or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the **Federal Register**, providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in § 1245.206(a)(1)(iii)(A) and consideration of any written objections received during the period, NASA has determined that:

(1) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilization by the public;

(2) The practical application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(3) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or otherwise promote the invention's utilization by the public; and

(4) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) Foreign licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license, identifying the invention and prospective licensee, has been published in the **Federal Register**, providing opportunity for filing written objections within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

Procedures

§ 1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

(a) Identification of the invention for which the license is desired, including the patent application serial number or patent number, title, and date, if known;

(b) Identification of the type of license for which the application is submitted;

(c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;

(d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;

PATENT LICENSING REGULATIONS

(e) Nature and type of applicant's business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;

(f) Source of information concerning the availability of a license on the invention;

(g) A statement indicating whether applicant is a small business firm as defined in § 1245.202(c);

(h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:

(1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;

(2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;

(3) A statement of the fields of use for which applicant intends to practice the invention; and

(4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;

(i) Identification of licenses previously granted to applicant under Federally owned inventions;

(j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and

(k) Any other information which applicant believes will support a determination to grant the license to applicant.

§ 1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to: (1) grant the license as requested, (2) grant the license with modification after negotiation with the licensee, or (3) deny the license. The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Assistant General Counsel for Patent Matters. Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Assistant General Counsel for Patent Matters based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the **Federal Register** in accordance with § 1245.206(a)(1)(iii)(A) or § 1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Assistant General Counsel for Patent Matters.

(c) If the requested license, including any negotiated modifications, is denied by the Assistant General Counsel for Patent Matters, the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with § 1245.211.

§ 1245.209 Notice to Attorney General.

A copy of the notice provided for in §§ 1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§ 1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§ 1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

(1) A person whose application for a license has been denied;

(2) A licensee whose license has been modified or terminated, in whole or in part; or

(3) A person who timely filed a written objection in response to the notice required by §§ 1245.206(a)(1)(iii)(A) or 1245.206(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under § 1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§ 1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§ 1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§ 1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to § 1245.207(h) and any report required by § 1245.204(b)(6) may be treated by NASA as commercial and financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,

Administrator.

October 15, 1981.

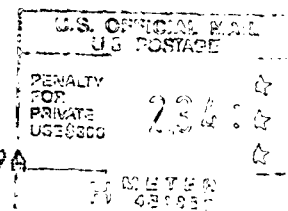
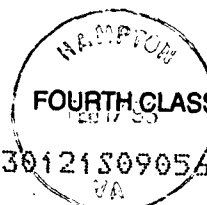
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